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ABSTRACT

The semiannual report summarizes research activities of the State Research Coordinating Units during the first two quarters of fiscal year 1974. For the first half of fiscal year 1974, career education again ranked high on the list of priorities for research projects. Other areas of emphasis included: follow-up studies, evaluations, competency studies, manpower studies, and programs related to health careers. In addition, the States have continued to fund projects for the expansion and improvement of their ongoing vocational programs. The purpose of the report is to facilitate exchange of information and reduce duplication of effort among the States by providing awareness of the research and development activities by other States. The report is one in a continuing series of compilations of State Quarterly Research Activity Reports. Projects completed, new projects funded, research related activities, and projects and activities planned are listed alphabetically by State and briefly described. (Author/NH)

ED 099519

SEMIANNUAL REPORT

ON

STATE RESEARCH COORDINATING UNIT ACTIVITIES

FOR THE PERIOD

JULY 1, 1973 - DECEMBER 31, 1973

U.S. DEPARTMENT OF HEALTH,
EDUCATION & WELFARE
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Division of Research and Demonstration

JUNE 1974

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U.S. DEPARTMENT OF HEALTH, EDUCATION AND WELFARE
Caspar W. Weinberger, Secretary

Office of Education
T. H. Bell, U.S. Commissioner of Education

Bureau of Occupational and Adult Education
William F. Pierce, Deputy Commissioner

Division of Research and Demonstration
Howard F. Hjelm, Director

JUNE 1974

FOREWORD

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This report summarizes information received from State Research Coordinating Units (RCU's) regarding research activities conducted under Section 131(b) of Part C of the Vocational Education Amendments of 1968. This report covers the first six months of Fiscal Year 1974. The purpose of the report is to provide information that will assist States to be aware of research and development conducted by other States, thus facilitating exchange of information and reducing duplication of effort.

This Semiannual Report has been prepared by Larry Braaten and Frances Watson of the Demonstration Branch of the Division of Research and Demonstration. This is the eighth in a series of reports on the activities of the State RCU's. The previous reports are listed below:

a. Annual Report on State Research Coordinating Unit Activities For Fiscal Year 1970 (ED-053-293)

b. Semiannual Report on State Research Coordinating Unit Activities for the Period July 1, 1970 to December 31, 1970 (ED-052-381)

c. Semiannual Report on State Research Coordinating Unit Activities for the Period January 1, 1971 to June 30, 1971 (ED-067-463)

d. Semiannual Report on State Research Coordinating Unit Activities for the Period July 1, 1971 to December 31, 1971 (ED-068-718)

e. Semiannual Report on State Research Coordinating Unit Activities for the Period January 1, 1972 to June 30, 1972 (ED-076-781)

f. Semiannual Report on State Research Coordinating Unit Activities for the Period July 1, 1972 to December 31, 1972 (ED-080-720)

g. Semiannual Report on State Research Coordinating Unit Activities for the Period January 1, 1973 to June 30, 1973

Copies of the above reports with assigned ED numbers can be obtained from the ERIC Document Reproduction Service.

Howard F. Hjelm
Director, Division of
Research and Demonstration

June 1974

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INTRODUCTION

During the first quarter of fiscal year 1974, no appropriation became available to the States under Section 131(b) of Part C of the Vocational Education Amendments of 1968. Therefore, it was necessary for the States to proceed with their research programs under a continuing resolution, which provided for a continuation of the program at last year's quarterly level of expenditure. The uncertainties associated with this type of funding had a detrimental effect on the planning and managing of the State research programs.

Working on the assumption that the appropriation which would ultimately become available would be at last year's level of $9 million, it was assumed that for fiscal year 1974 the minimum amoung of research funding for a State would be $12,068 allocated for Alaska and the maximum would be $762,090 allocated for California. About 60 percent of the States were expected to receive more than $100,000 for research and development by the end of fiscal year 1974. These funds could be used for paying up to 75 percent of the costs of the State Research Coordinating Unit (RCU) and for grants and contracts covering 90 percent of the costs of research and/or developmental projects.

By the middle of the fiscal year, nearly half of the States reported the expenditure of 1974 funds for grants and contracts. A number of States continued to fund new research projects with carry-over monies from their 1973 allotments. However, less than 30 percent of the $9 million anticipated for 1974 had been reported approved for grants and contracts. This low level of expenditures has been attributed to the uncertainty about the availability of funds under the continuing resolution.

The RCU's have continued to provide the leadership for the States' R&D programs in vocational education. In providing this leadership, the RCU's have given assistance to State vocational agencies and personnel, graduate students, teachers and a variety of other interested parties. They have also played a major role in long-range planning and the development of vocational research priorities. One of the most important activities of the RCU's is the disseminating of the results of research. In addition to the operation of their own dissemination efforts, the RCU's are a vital part of the national network of contributors to the ERIC collection.

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For the first half of fiscal year 1974, career education again ranked high on the list of priorities for research projects. Other areas of emphasis included: followup studies, evaluations, competency studies, manpower studies, and programs related to health careers. In addition, the States have continued to fund projects for the expansion and improvement of their ongoing vocational programs.

The Semiannual Report which follows is a compilation of State Quarterly Research Activity Reports covering the first two quarters of fiscal year 1974 which have been received from the States. Additional information on projects listed under the category of "new projects funded" may be located in the "Research Projects in Progress" section of Abstracts of Instructional and Research Materials in Vocational and Technical Education (AIM/ARM) published bi-monthly. Final reports of the "projects completed" are abstracted in the monthly issues of Research in Education and/or in the bi-monthly issues of AIM/ARM. All reported research projects administered by the State educational agency were included in this report, whether or not they were funded under Section 131(b) of Part C.

Summaries of

State Research Coordinating Unit

Semiannual Reports

for the period

July 1, 1973 - December 31, 1973

ALABAMA

T.L. Faulkner, State Director for Vocational Education
Douglas Patterson, RCU Director

PROJECTS COMPLETED:

1. Interstate D.E. Curriculum Project.

NEW PROJECTS FUNDED:

1. Vocational Education follow-up project at Auburn University.
2. Implementation of Career Education K-12 in the Phenix City Public Schools.
3. Proposal for Career Education Project in Vocational Technical Education in Mobile County.

RESEARCH RELATED ACTIVITIES:

1. Reviewed State and National Research on funding of vocational education.
2. Designed field trial for occupational education management information system.
3. Designed out-put data for State Department of Education management information system.
4. Developed status report of post-secondary technical schools.
5. Researched funding formulas for vocational education.
6. Prepared manpower demand studies of SMSA's
7. Prepared manpower demand projection for the state.
8. Expanded the efforts of the "Query" service.
9. Conducted evaluations of examplary research projects.
10. Prepared information releases and publications.

Alabama

11. Conducted course cost analysis of technical college programs.
12. Conducted manpower demand studies for selected technical institutes.
13. Collected data and prepared state and federal reports.
14. Developed demand projections for LPN's and ADN's for the state.
15. Calculated data and analyzed demand for special needs programs.
16. Calculated drop-out rates for each school system.
17. Conducted Junior College feasibility study.
18. Conducted management information system pilot study.
19. Designed industrial arts information system.
20. Coordinated exemplary and research materials.
21. Disseminated curriculum and research materials.
22. Participated in RCU and MIS workshops and conferences.

PROJECTS AND ACTIVITIES PLANNED:

1. Design procedure for financial data collection and computer-assisted accounting of vocational programs.
2. Disseminate Distributive Education research and curriculum materials.
3. Conduct exemplary leadership development program.
4. Disseminate research on long-range program planning.
5. Conduct curriculum research for selected occupations.
6. Research demands for alternative training programs.
7. Prepare computer programming for management information system.
8. Establish systematic manpower analysis reporting procedures
9. Disseminate career education research results to local education agencies.

Alabama

10. Disseminate career education curriculum materials to local education agencies.

11. Prepare State Plan for Vocational Education.

ALASKA

Louis D. Ridle, State Director of Vocational Education

Louis D. Ridle, RCU Director

NO REPORTS RECEIVED

ARIZONA

Eugene L. Dorr, State Director of Vocational Education

Beverly Wheeler, RCU Director

NO REPORTS RECEIVED

ARKANSAS

Luther Hardin, State Director for Vocation Education
Jack D. Nichols, RCU Director

PROJECTS COMPLETED: None

NEW PROJECTS FUNDED:

1. "The World of Fashion"

2. "The Development of Sequential Self-Paced Vocational Activity Units Utilizing Multi-Media for Use in Vocational Aptitude Evaluation Carrels"

3. "A Comparative Study of the occupational Achievement of Vocational and Non-Vocational High School Graduates in the State of Arkansas"

4. "Hospitality Industry Management: Certificate of Competence Program"

5. "Research and Demonstration Project in Career Education on an area School Basis"

6. Some thirteen mini-grants for local action-oriented research activities have been approved.

RESEARCH RELATED ACTIVITIES:

1. Assisted with inservice education workshops for project staff involved in research and exemplary projects.

2. Reviewed proposed projects submitted for possible funding.

3. Compiled pertinent student data from the computerized vocational student data system.

4. Conducted a one week workshop for some 70 individuals involved in the Career Education Demonstration Project at Russellville Public Schools funded under Part C - Commissioner's Share.

5. Prepared proceedings on the Statewide Governor's Career Education Conference.

6. Assisted with the development of a proposal entitled "A Unified School - Community Approach to Remodel Guidance Services and Expand Next Step Placement and Follow-up" which has been submitted for possible funding under Part C - Commissioner's Share.

Arkansas

PROJECTS AND ACTIVITIES PLANNED:

1. Curriculum Development in selected areas.
2. Disseminate findings regarding research and development activities.
3. Inservice training for project staff members.

CALIFORNIA

Samuel L. Barrett, State Director for Vocational Education
Roland Boldt, Chief, Program Services and Evaluation
James Crandall, Coordinator Vocational Education Research

PROJECTS COMPLETED:

1. A Coordinated Instruction Employment Counseling System Focusing on Student Adjustment to Work, Joan M. Lewis, San Mateo Community College.

2. Developing a Resource Tool for High School and College Counselors in Counseling the Physically Handicapped, John R. McKinley, South County Joint Junior College District.

3. Research Training Workshops for Vocational Educators, Northern California Community College Research Group.

4. Intrinsic-Extrinsic Motivation Concepts as applied to Selected Vocational Instructional Programs, Mildred E. Hight, Mount San Jacinto.

5. Field Test of a Computer Based Manpower Projection, Ralph Thompson and Raymond Ellis, Sacramento County Education.

6. COPES 1972-73 Report: **Subsystem:** Disavantaged and Handicapped, George Ebey, Foothill Community College.

7. Vocational Information System Model, Herbert S. Adams, Community Colleges Office.

8. Multi-Media for Vocational Guidance, Dr. Milo Johnson and Benton Caldwell, Mt. San Jacinto College.

9. An Analysis and Comparison of Selected Roles for State Advisory Councils on Vocational Education, Dr. Mel Barlow and Anthony J. Pitale, U.C.L.A.

10. Job Needs Survey Model for Use by Local Educational Agencies, James C. Krebs and Charles Pusey, Inglewood Unified School District.

11. Training of Vocational Education Teachers in Research, Dr. G. N. Beaumariage, Sacramento State University Foundation.

12. Career Education Opinions of Junior High School Teachers, Dr. Mel Barlow and Greg S. Ohanneson, U.C.L.A.

California

13. Career Education Opinions of High School Teachers, Dr. Mel Barlow and Frank Santoro, U.C.L.A.

14. The Relationship Between A Developing Career Education Program and the Career Maturity of Secondary School Students, Stanley Greene and Cliff Purcell, Santa Barbara.

NEW PROJECTS FUNDED:

1. Development, Field Test, and Evaluation of a Method for Statewide Longitudinal Follow-ups for High School Graduates Using Sampling Techniques, Fred E. Orr and William Harris, Santa Barbara County Office of Education

2. Student Perceptions of the Link Between School and Work, Dr. Sanford Dornbusch and Mr. Bruno Zachary, Stanford University.

3. Industry Validated Vocational Performance Objectives, Dr. Robert L. Branch and Mr. Ralph Thompson, Sacramento County Office of Education.

4. Use of Need Assessment in Improving the Utility of Community College Advisory Committees, Otto Roemich, Sidney McGaw and Otto A. Heinkel, San Jose Community College District.

5. Research on Application of a Self Actualization Process in an Attempt to Improve Effort and Performance in Selected Vocational Programs, Mildred Hight and Hilding Nelson, Mt. San Jacinto Community College District.

6. Occupation Needs Assessment of the Elderly, James R. Lagerstrom and Kevin Galvin, Los Angeles Community College District.

7. Comparison of Listening - Viewing Comprehension Levels of a Junior College Population Enrolled in Vocational Education Compared to the Comprehension Levels of the Learning Materials Utilized in Vocational Education, John Ross, C. E. Woodward, Jr., and Dr. Harvey B. Rhodes, President Yosemite Community College District (Columbia Jr. Coll.)

8. The Effects of Providing Pre-Educational Treatment to Handicapped Young Adults to Increase their Readiness for College and Vocational Education Programs: A Controlled Research Study, Dr. Dryan Kemp, Rancho Los Amigos Hospital.

9. Improving Occupational Student Follow-up in California Community Colleges, Leslie Koltia and Benjamin Gold, Los Angeles Comm. College District.

California

10. Project COPES, Nathan H. Boortz and George Ebey, Foothill Community College.

11. Reasons for Dropouts and Inhibitors to Training Related Job Placement of Vocational Education Trainees, William A. Kempf.

12. An Evaluation of Self Administration and Self Interpretation of the California Occupational Preference Survey, Patricia Lux and Dr. James Saum, San Juan Unified School District.

13. Assessment of Attitudes and Expectations of High School Teachers of Voc. Ag. and Industry School Administration toward Field Responsibilities, Duties and Activities of the Bureau of Ag. Ed., Dr. D. S. Gilbertson, California Polytechnic State University Foundation.

14. Impact of Career Testing and Human Potential Seminar Training Upon Persistence and Performance of High Risk Students Declaring Vocational Majors, Dr. Thomas F. MacMillan, Mendocino Community College District.

15. Research Training, J. R. Toothaker, Pasadena Area Community College District.

16. Minority Community Attitude Survey, Rosetta Barnett, Compton Community College District.

RESEARCH RELATED ACTIVITIES:

A. Project Monitoring:

During the period ending December 31, 1973, nine on-site visits were made to projects funded under P.L. 90-576, Part C, Section 131 (b).

On-site visitation of projects was designed to accomplish the following:

1. Provide consultation in research methodology to help the agency solve problems that may have developed in the conduct of the project.

2. Where appropriate, provide resource material that will (a) increase the generalizeability of the results of the project, and (b) strengthen the quality of data produced by the project.

California

3. Perform an audit function to assure that (a) the project was being conducted in accordance with the approved project application, (2) personnel employed out of the project funds were performing project functions, (c) changes in objectives, procedures, or budget had prior written approval of the Coordinator of Vocational Education, Research, and (d) project directors' questions concerning reporting procedures were answered prior to submitting their progress reports.

4. Provide information to staff that might be useful to project or program activities in other agencies.

B. Dissemination:

Between July 1, 1973 and December 31, 1973 seventeen hard copies were loaned to agencies and individuals requesting information and/or research data.

Monthly research summaries have been developed for publication in a Vocational Education newsletter that is distributed statewide. Summaries of studies, as well as entire research reports, have been forwarded to appropriate state vocational education staff members.

C. Coordination and Consultation:

Between July 1, 1973 and December 31, 1973, consultation was provided to individuals and agencies in universities, districts and a state hospital.

In the present activity period, twenty applications for research projects were received and reviewed according to procedures outlined in the State Plan. Eight of the applications were approved and the projects were funded. In addition to the eight regularly approved applications, there were five staff-initiated projects that were funded.

During the same period, a small research grant program provided consultation to, reviewed and approved five small grant projects.

PROJECTS AND ACTIVITIES PLANNED:

Not indicated

COLORADO

M. G. Linson, State Director of Vocational Education

Robert F. Barnes, RCU Director

NO REPORTS RECEIVED

CONNECTICUT

Herbert Righthand, Acting, State Director for Vocational Education
Richard C. Wilson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. A Survey of Community Resources and Employment Opportunities having Implications for Programs of Vocational Agriculture in Connecticut: Phase I, University of Connecticut, Storrs, Connecticut.

RESEARCH RELATED ACTIVITIES:

1. Administered Part C and Part D State projects.
2. Collected and processed end-of-year enrollment data for all vocational programs.
3. Served on Departmental Executive Committee on Needs Assessment.
4. Served as liaison with State Labor Department on manpower studies and annual manpower report.
5. Attended meeting with shoreline superintendents to discuss proposed feasibility study for career education center in the area.
6. Conducted feasibility study in conjunction with State Advisory Council, for an East Shore career education center in four-town area.
7. Conducted study of need for vocational-technical school in East Hampton.
8. Conducted study of need for vocational-technical school in West Haven.
9. Conducted study of need for vocational-technical school in Bristol-Plymouth-Thomaston area.
10. Served as liaison between Division of Vocational Education and Progam Review Committee of State Legislature on special study of secondary vocational education in the State.
11. Made panel presentation at proposal writing workshop for post-secondary educators held at University of Connecticut on October 30.

Connecticut

12. Addressed health occupation teachers at Health Occupations Workshop, Rensselaer Polytechnic Institute, Hartford.

13. Served as division representative on departmental CEIS committee.

14. Attended National Conference of Management Information Systems for Vocational Education, Oklahoma City, November 13-16.

15. Conducted study of applicants to regional vocational-technical schools.

16. Collected, processed, and disseminated fall enrollment data for vocational-technical schools and state technical colleges.

PROJECTS AND ACTIVITIES PLANNED:

1. Client Need Analysis to Determine the Need for Vocational Services for Handicapped School-age Persons in the Greater New Haven Area.

2. Long-range Follow-up Study of Connecticut Secondary School Distributive Education Graduates.

3. Statewide Study of the Need for Vocational-Technical Schools.

4. Development of a Professional Staffing Plan for the Division of Vocational Education.

DELAWARE

Conrad C. Shuman, State Director for Vocational Education
Burton Braverman, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Development of a Model Delivery System for Comprehensive Exploratory Programs for Grades Five Through Nine, Seaford School District.

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: Not indicated.

DISTRICT OF COLUMBIA

Paul E. Cawein, State Director for Vocational Education
Jeannie H. Carter, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. A comprehensive Follow-up of Vocational and Selected Academic High School Graduates, Robert L. Morgan, Center for Occupational Education, North Carolina State University at Raleigh.

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: NONE

FLORIDA

Joe D. Mills, State Director for Vocational Education
K. M. Eaddy, RCU Director

PROJECTS COMPLETED:

1. A Comprehensive Vocational Education Program for Career Development in Grades K-14 for Pinellas School District.

NEW PROJECTS FUNDED:

1. A Comprehensive Vocational Education Program for Career Development In Grades K-12, Mr. Robert E. Megow, Orange County.

2. Development of Catalogs of Performance Objectives for Criterion-Referenced Instruments in Automotive Body Repair and Refinishing, Mr. Roger Richardson, Florida A&M University.

3. To Prepare Final Reports for Project FAIS, Dr. J. B. Hodges, University of Florida.

4. An Evaluation of Career Education Programs in Orange, Broward, Brevard, Leon, Escambi, Duval, Dade and Hillsborough Counties, Dr. L. Hodby Perkins, University of West Florida.

5. To Conduct Field Test of Project LOOM, Mr. Ernest Berger, Florida State University.

6. To Continue Four Graduate Research Assistants, Dr. Robert Lathrop Florida State University.

7. To Continue the Graduate Research Assistants Program, Dr. Ralph O. Gallington, Florida State University.

8. To Complete Development of Project FAIS Materials, Mrs. Midge F. Smith, University of Florida.

RESEARCH RELATED ACTIVITIES:

1. The Research Coordinating Unit Staff (Bureau of Research and Evaluation):

   a. Participated in presentations on Career Education at the Twenty-ninth Conference for Florida Supervisors of Instruction, Miami.

   b. Assisted in conducting a workshop for Career Education Project Directors, St. Petersburg.

c. Assisted in conducting statewide meeting on The Implications of Career Education for Teacher Educators, University of South Florida, Tampa.

d. Participated in Career Development Workshop for Counselors, Occupational Specialists, Teachers and Principals, Florida A&M University, Tallahassee.

e. Assisted in the development of A Statewide Model for the Evaluation of Career Education Programs, University of West Florida, Pensacola.

f. Served as a member of the Career Development and Work Technology Task Force, Florida State University, Tallahassee.

g. Participated in staff development activities for Career Education programs in four local school districts.

h. Attended meeting with personnel from U. S. Office of Education to discuss teacher education needs in Career Education.

i. Made presentation to Deans of Colleges of Education from State Universities concerning the implication of Career Education for Teacher-training institutions.

j. Participated in presentations about Career Education at the Vocational, Technical and Adult Educator's Conference, Miami Beach.

k. Made presentations at Vocational, Technical and Adult Education Division Staff Meeting, Tallahassee.

l. Served as member of Department of Education Career Education Task Force, Tallahassee.

m. Served as member of Career Education Curriculum Laboratory Advisory Council, Tallahassee.

n. Served as member of Career Development Advisory Committee, Tallahassee.

2. Participated in Division and Department meetings such as Bureau Chiefs' Vocational Division Coordinating Committee, Career Education Task Force, Placement and Follow-up Task Force, Comprehensive Planning for Education, Council, Florida Educational Research and Development Steering Committee, State Advisory Council for Vocational-Technical Education, and others.

Florida

3. Represented the Division and Department at:

   a. Meetings of the Sub-Committee on Education, Florida Council of 100.

   b. Annual Convention of the American Vocational Association, Atlanta.

   c. Annual Meeting of the American Vocational Educational Research Association, Atlanta.

   d. Meeting of Southwide Research Coordinating Council, Nashville.

   e. Annual National Vocational-Technical Teacher Education Seminar, Dallas.

   f. Planning session to develop program for National Research Coordinating Unit Conference, Atlanta.

   g. Orientation Workshop for Project Directors, Coordinators and State Department Personnel in connection with 1973-76 funding of Part "D" Projects, Region IV, Atlanta.

   h. Meeting of National Committee on Development of Occupational Competencies, Atlanta.

   i. Meeting of the Board of Directors of Vocational-Technical Education Consortium of States, Atlanta and San Antonio.

   j. Conference on Instructional Systems Design presented by the U. S. Air Force Training Command and Southern Association of Colleges and Schools, Biloxi.

4. Developed audio-visual materials for career education presentations to legislative committees, division representatives, school boards, teachers, administrators and other interested groups.

5. Assisted in the planning of teacher in-service workshops and activities related to career education.

6. Continued the development of planning activities for Bureau operation of management by objectives and Program/Planning/Budgeting/System.

Florida

7. Attended and participated in Legislative meetings and Hearings on Career Education.

8. Developed guidelines for placement and follow-up in Florida school districts.

9. Developed procedures and guidelines for the preparation of School District Career Education proposals.

10. Met with project directors and publishers to discuss the production of FAIS materials.

11. Monitored currently funded research and exemplary projects; held meetings with project directors, curriculum developers and evaluators; and assisted in the development of additional projects for FY 1974.

12. Established a mini-grant program with Part "D" funds, P. L. 90-576 and sent guidelines and letters of invitation to school districts, Community Colleges and Universities.

13. Prepared and reviewed monthly, quarterly and semi-annual technical project reports and disseminated reports to the Director, Assistant Director, Bureau Chiefs, and Program Administrators of the Division of Vocational, Technical and Adult Education.

PROJECTS AND ACTIVITIES PLANNED:

1. Assist School Districts in the planning, implementation and evaluation of career education programs.

2. Monitor funded projects in the areas of research, exemplary, evaluation and dissemination.

3. Continue to provide leadership in vocational research, exemplary, evaluation and dissemination programs designed to stregthen vocational education in the state.

GEORGIA

Russell S. Clark, State Director for Vocational Education
James E. Bottoms, Director, Division of Program and Staff Development
Paul Scott, RCU Director

PROJECTS COMPLETED:

1. Program of Education and Career Exploration, Georgia State Department of Education, Office of Adult Vocational Education.

2. Competency-Based Vocational Teacher Certification, Harmon Fowler, University of Georgia, Athens, Georgia 30601.

3. Consortium to Develop Objectives for Occupational Education Programs, Paul Scott and Bettye G. Hirst, Occupational Research Coordinating Unit, State Department of Education

NEW PROJECTS FUNDED:

1. The Diffusion of Job Placement, Paul Vail, State Department of Education.

2. Project to Develop a Cooperative Program for Secondary Students in Medical Care and Allied Health Careers, Paul Scott and Earl Williams, State Department of Education.

3. Paraprofessional Project (Educational Aides Based on Public Service Clusters in Two School Systems) Paul Scott, State Department of Education.

4. Health Co-op Staff Training Project, Dr. Elizabeth Milliken, University of Georgia.

5. Self and Career Awareness, Curriculum Development K-6, Jim Sisson, Ph.D, West Georgia College Carrollton, Georgia 30117.

6. Self and Career Awareness Program Development and Installation K-6, Curtis Kingsley, State Department of Education.

7. Career Education for Rural Georgians, Crisp and Liberty Counties, Harvey Kitchens, Crisp County Schools Cordele, Georgia 31015

8. Development of an Individualized Instructional System for Mini-exploratory Courses in Career Education at the Middle/Junior High School Level, Nevin Frantz, University of Georgia Athens, Georgia 30601.

Georgia

9. Third Party Evaluation of Demonstration Sites and Curriculum Materials, Frank Wellman, University of Missouri, Columbia, Missouri.

RESEARCH RELATED ACTIVITIES:

Staff members attended and made presentations at the following conferences:

1. Instructional Systems Design Conference sponsored by the Community College of the Air Force and the Southern Association of Colleges and Schools.

2. Georgia Vocational Supervisors' Conference.

3. Five EPDA Staff Development Workshops.

4. Regional U. S. Office of Education Meetings.

5. State Staff Conferences.

6. American Vocational Association Annual Meeting with presentations to Guidance and Industrial Arts section.

7. American Personnel and Guidance Association Convention with presentations to the National Vocational Guidance Association.

8. Cobb County, Georgia teachers workshop.

9. Georgia Distributive Education Convention.

10. Georgia Vocational Association Convention with presentations to teachers of students with special needs.

11. Professional Development Workshop for State Technical Coordinators.

12. Summer training conference for Junior High School Exploratory Specialists.

13. Workshops for training 56 counselors to implement job placement programs.

14. Meeting of Georgia administrators held at Georgia Southern with presentations on Comprehensive Career Education.

15. Staff Development Meeting at elementary schools for career education implementation.

Georgia

Staff members provided the following consultative services:

1. Assisted in the development and installation of the K-6 and Job Placement Projects.

2. Developed means of advancing vocational guidance in Georgia with the State Guidance Staff and Title III Guidance Project.

3. Assisted in the design and development of Project Install, an approach for installing materials developed by the RCU.

4. Prepared a field test design to use in Georgia performance based projects that was also adopted by the V-TECS consortium.

5. Served on the Board of Directors for the V-TECS consortium.

6. Served as Georgia's representative for the Mississippi State University curriculum lab.

7. Conducted ERIC searches for projects relating to Environmental Occupations, Career and Vocational Education, Special Education/ Vocational Education, Hospitality and Recreation Cluster.

PROJECTS AND ACTIVITIES PLANNED:

1. Development and Implementation of a Career and Vocational Guidance Program Oriented to the Student Needs of a Local School System, James E. Bottom, Paul Scott, and Paul Vail, State Department of Education.

2. Project to implement a Public Service Cluster Program in one Georgia School, Paul Scott, Georgia State Department of Education.

3. Develop a Computerized Field Test of Objectives and Criterion-Referenced Tests for the Florida Auto Mechanics Program, Bettye G. Hirst, Georgia State Department of Education.

4. Development of Individual Instructional Units for Disadvantaged Students, Bill Cheshire, Georgia Southern College Statesboro, Georgia.

5. Development of Special Needs Assessment System, Paul Scott, Georgia State Department of Education.

6. Development of Vocational Instructional Media to Train Vocational Personnel in Teaching Disadvantaged Students Enrolled in Vocational Programs, Mary Emerson, Georgia State Department of Education.

HAWAII

Samson S. Shigetomi, State Director for Vocational Education
Sybil Kyi, RCU Director

PROJECTS COMPLETED:

1. Manpower Survey Project: A Survey of Industry Opinion, Ross Prizzia.

NEW PROJECTS FUNDED:

1. Follow-Up Study of Vocational Education Graduates in the University of Hawaii Community Colleges: A consortium project headed by Hawaii R & D unit with participating researchers for the colleges.

RESEARCH RELATED ACTIVITIES:

1. Further development on the VERSE System (Vocational Education Retrieval System and Evaluation) has been suspended in view of staff manpower shortages and resulting priorities.

2. Occupational Information Resource Manual: The R & D Coordinator serves as Vocational Education staff resource consultant to the project team carring out this Part D (Commissioner's) funded activity. The expected result will be an updated and expanded Manual on how to look for jobs, where they are, and what opportunities are available in Hawaii. The Manual is primarily being designed for the use of highschool students.

PROJECTS AND ACTIVITIES PLANNED:

1. Publish results of FY 1971-72 Vocational Education Graduates Survey.

2. Develop project for computerizing a manpower projection model based upon industry-occupation matrices for the State of Hawaii and its Counties.

IDAHO

Roy D. Irons, State Director for Vocational Education
Kenneth Hanson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Evaluation of the Impact of a comprehensive program to improve office occupations education at Madison High School as measured by student competence, Madison High School, Rexburg, Idaho.

2. A comprehensive career education program for Grades 7 - 9 (Supplements Commissioners V361033L), Pocotello School District #25 Pocatello, Idaho.

3. Home Economics-Related Occupational Classes, Nampa High School, Nampa, Idaho.

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED:

1. Development of Management Information System for Idaho Vocational Education.

2. Research Workshop for Vocational Education Personnel.

ILLINOIS

Sherwood Dees, State Director for Vocational Education
Ronald D. McCage, RCU Director

PROJECTS COMPLETED:

1. Develop and Test a Systematic Approach for Implementation of a Statewide Student Based Management Information System, Robert Davis Associates, Inc. Atlanta, Georgia.

2. Statewide Assessment: Programs for the Disadvantaged (Secondary and Post-Secondary), L. Weisman, Southern Illinois University Carbondale.

3. Manpower Assessment of New and Emerging Jobs in Environmental Areas, Dr. Arden Pratt, Souther Illinois University.

4. Computer Based Guidance, L. E. Rosenthal, Board of Education, Chicago.

5. Coal Mining Technology, H. E. Ahlfield Ill. Eastern Jr. College Wabash Campus, Carmi

6. Statewide Assessment of Programs for the Handicapped (Secondary and Post-Secondary), V. E. Burgener Technical Education Research Centers, Inc., Midwest Center, Champaign.

7. Secretarial Science Program, L. R. Thompson Waubonsee Community College Sugar Grove.

8. An Exemplary Project for Minority Group Children in the Elementary School Using Career Demonstation Centers, Diane Bernard, District #89 Maywood.

NEW PROJECTS FUNDED:

1. Maximizing Human Resource Development in the Five Co. Tier Region of Southern Illinois: An Occupational Education Planning, Grant-Phase II, Joel Jennings, Shawnee Community College, Ullin.

2. Cost Differential Analysis in Regular Secondary Vocational Programs and Area Vocational Centers in Illinois-Phase II, D. S. Nystrom, Southern Illinois University, Carbondale.

3. Development of a Systematic Approach to Follow-up Evaluation-Phase II, J. Felstehausen, Eastern Ill. University, Charleston.

4. Analysis of Current Manpower Labor Market Information in Illinois-Phase II, R. E. Hattwick, Western Ill. University, Macomb.

Illinois

5. Illinois Vocational Education Management Information System-Phase II, R. A. Davis, Robert Davis Associates, Atlanta, Georgia.

6. The Development of a Career Education Model for Grades 7 - 10, Shaedrick Tillman, Chicago State University & Posen-Robbins.

7. Career Education Resource Laboratory, Charles Joley, Eastern Ill. University, Charleston.

8. Production of Multiple copies of a 15-30 Minute Film Based on Ill. Developments in Career Education, Ardent Pratt, Southern Ill. Univ. Carbondale.

9. To Review, Synthesize and Annotate the Body of Literature Written Since March 1970 in the Areas of Career Development and/or Career Education, Larry Bailey, Southern Ill. University, Carbondale.

10. Counselor Support System (Technology & Education), JoAnn Harris, Community District #88 Willowbrook H.S. Villa Park.

11. East St. Louis Career Education Project, James Little, E. St. Louis District #189.

12. Illinois Network for School Development, Office of the Superintendent of Public Instruction (Division of Voc. & Tech. Ed.)

13. Third Party Evaluation of Six Career Education Projects.

14. An Exemplary Program in Technical Education: Industrial Engineering Technology Based on Measurably Stated Behavioral Objectives Phase III, R. Van Raes, Moraine Valley Community College.

15. Nuclear Radiation Project Phase III, Wm Phelps and Art Baker, Crystal Lake H.S.

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED:

1. Consumer and Homemaking Articulation Program, M. J. Oldham, Southeastern Ill. College.

2. A Demonstration Center for a Secondary, Post-Secondary and Adult Consumer and Homemaking Program, G. Keeys, Kennedy-King Community College, Chicago.

Illinois

3. A Demonstration Center to Exhibit the Merits of a W.E.C.E.P. Program and Ways in Which They May Be Originated, P. Karber, Carbondale,Comm. H.S., District #165, Carbondale.

4. W.E.C.E.P. Demonstration Center for Northern Ill., R. Bergman, School District #46 Elgin.

5. A Needs Assessment for New and Innovative Programs in Cooperative Education, Omar Mumey, Person-O-Metrics, Dearborn Hgts., Michigan.

6. A Statewide Assessment of the Status of Career Education

7. The Development of a Survey Instrument that Determines Parameters of Readiness for Students (K-12) to Assimilate Occupational Information.

8. Feasibility of Establishing Regional Planning Council for Coordination of Occupational Educational Programs.

9. Survey Governmental Agencies and Municipalities to Determine Job Opportunities and Related Training Possibilities at the Secondary and Post-Secondary Levels.

10. Development of an Occupational Orientation Program Stressing the Affective Aspects of Surviving in an Occupation.

11. Provide Support for Research and Development Activities Originating at the Local Level as Solicited Through a RFP - 3 Projects.

12. Provide Support for Exemplary Activities Originating at the Local Level as Solicited Through a RFP - 2 Projects.

13. Implementation of a Pilot Occupational Education Program for the Handicapped at the Secondary Level.

14. Implementation of a Pilot Occupational Education Program for Adults.

15. An Exemplary Program In Occupational Education for the Veteran.

16. An Impact Assessment of the "Demonstration Center" as a Dissemination Technique.

17. Development and Implementation of An Aviation Occupations Program for Young Women at the Secondary Level.

INDIANA

Don K. Gentry, State Director for Vocational Education
Carol Ann Hodgson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Indiana's VIP Treatment Brochure, Indianapolis Public Schools, Jack Bainter.

2. Mobile Training Unit--A Total Community Approach, Penn-Harris-Madison School Corporation Dr. Gerald Dudley.

3. Career Orientation: Rural and Low-Income Youth, Purdue Research Foundation.

4. A Needs Assessment of Region V in Indiana for Area Planning, Roger Jessup, Marion Community Schools.

5. A Five Week Training Program for Vocational Rehabilitation Workshop Supervisors, Indiana Vocational Technical College.

6. Piloting the Career Education Guide (12 School Corporations)

RESEARCH RELATED ACTIVITIES:

1. 2 days of AVA.

2. Region V called meeting--Chicago 12-73.

3. Region V and USOE Curriculum meeting--Chicago 9-73.

4. Curriculum Management Center Consortium--Indianapolis 12-73.

PROJECTS AND ACTIVITIES PLANNED:

1. Develop a plan for the evaluation of the state-wide vocational education program.

2. Develop criteria for evaluating all post-secondary vocational education programs.

3. Strategies for a placement service at the LEA-Community level.

4. Develop a follow-up model applicable to local and state needs which will assist each in local and/or state planning.

Indiana

5. Devise a plan for a comprehensive delivery system for vocational education materials.

6. Leadership and character development materials to be used with vocational education students.

7. Mini-projects determined by local priorities which can enhance vocational education efforts, either locally or state-wide.

8. Develop criteria for identifying industrial arts programs as pre-vocational.

9. Unique approaches to vocational education.

IOWA

William O. Schuermann, State Director for Vocational Education
Kenneth M. Wold, RCU Director

PROJECTS COMPLETED:

1. Identification of Competencies for Occupations in Food Service, Iowa State University, Ames, Iowa.

2. Identification of Tasks in Occupations Related to Institutional and Household Services (revised title) (Identification of Competencies for Occupations in Institutional and Household Services was original proposal title), Iowa State University, Ames, Iowa

3. Identification of Competencies for Child Care Occupations, Iowa State University, Ames, Iowa.

RESEARCH RELATED ACTIVITIES:

1. The Career Education Needs Information System (CENIS) research project activities included:

   a) Data processing and analyses were continued, and reports were prepared for dissemination to area schools, local schools, and state agencies.

   b) Data from this project were used to develop a priority training area list to be used in educational planning for fiscal year 1975.

2. A Support Services Section representative attended a meeting of the Regional Liaison Curriculum Committee established for the Illinois Curriculum Management Center.

3. Career Education Research Advisory Committee members met to review research proposals.

4. Visited with project directors and their staffs to review and assess the progress of research and exemplary projects and to provide consultation in regard to activities in the continuation of projects.

5. Prepared the annual statistical, fiscal, and descriptive report for the U.S. Office of Education and submitted a draft copy to the Regional Office.

6. The State Plan for Administration of Career Education, fiscal year 1974, and a summary of this state plan have been printed and are being disseminated.

7. Began preparation of the State Plan for the Administration of Career Education, fiscal year 1975.

8. Coordinated the preparation of a proposal in response to an announcement for fiscal year 1974 for Section 131(a) of Part C of the Vocational Education Act of 1963, as amended in 1968. Assisted individuals in educational institutions in Iowa in conjunction with their preparation of proposals for submittal in response to the announcement.

9. Prepared reports for Project Baseline.

10. Consulted with individuals relative to preparation of research proposals.

11 Elementary-secondary and postsecondary new program proposals were reviewed and evaluated for approval and funding.

12. Continued meetings to prepare for the merging of the activities of two on-going exemplary occupational information projects (CVIS and IOWAscript). Specifications for bids to continue the merged project were developed.

13. Coordinated the review and preparation of research and exemplary project materials for dissemination.

14. Continued to develop a file of competency studies for use by State consultants in assisting local educational agency personnel in the development of curriculum materials.

PROJECTS AND ACTIVITIES PLANNED: Not Indicated

KANSAS

John E. Snyder, State Director for Vocational Education
Wilbur A. Rawson, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. A Study of IACP Teacher Competencies, Dr. Ed. Webb, Wichita State University.

2. Curriculum Materials for Agri-business and natural resources, Dr. Ralph Fields, KSU, Manhattan.

3. Vocational Agriculture Study of Training, Dr. Kittleson, KSU.

4. Developing Manpower System and Management Information System for Vocational Education in Kansas, Dr. Harris, KSU.

RESEARCH RELATED ACTIVITIES:

1. Phase II of IACP teacher competencies.

PROJECTS AND ACTIVITIES PLANNED: Not Indicated

KENTUCKY

Carl F. Lamar, State Director for Vocational Education
Robert M. Schneider, RCU Director

PROJECTS COMPLETED:

1. Continuation of Demonstration and Development for Model Office Programs.

2. Principal's Orientation Research Project.

NEW PROJECTS FUNDED:

1. Two Hour Vocational Classes at Laurel County Area Vocational School (Supplement), James Moore, PO Box 145, Barbourville, Kentucky.

2. Field Testing Career Exploration Materials, Bob Spillman, Curriculum Development Center, University of Kentucky, Lexington, Kentucky.

3. Career Education Development Project: Hazard, Bowling Green, and Owensboro, Dr. B.E. Childers, SACS, Atlanta Georgia

4. Development and Evaluation of a Technical Report for Dissemination of Research and Development Information to Ky. Vocational Educators, Lynn Wood, Bureau of Vocational Education, Frankfort, Kentucky.

5. Validation of Curriculum Guides Objectives, Elsie Kennedy, University of Kentucky, Lexington, Kentucky.

6. Vocational Education Public Information Program for the Pennyrile Region, Joyce Logan, Region 2 P.O. Box 608, Madisonville, Kentucky.

7. Dissemination of Information Relating to Selected Aspects of the Bowling Green City Schools Career Education Project, Otto Mattei, Bowling Green City Schools, Bowling Green, Ky.

RESEARCH RELATED ACTIVITIES: NONE

PROJECTS AND ACTIVITIES PLANNED: Not indicated

LOUISIANA

Kirby K. Awagain, State Director for Vocational Education
Gertrude Enloe, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Louisiana Occupational Training Information System, Dr. Roger L. Burford, Louisiana State University.

2. Research and Development Project in Career Education, Harold Gauthe, Superintendent, Lafayette Parish School Board.

3. Research and Development Project in Career Education, Paul J. Moses, Superintendent Calcasieu Parish School Board.

4. Research and Demonstration Project in Career Education, Harold Gauthe, Superintendent, Lafayette Parish School Board.

5. Research and Demonstration Project in Career Education, Paul J. Moses, Superintendent, Calcasieu Parish School Board.

RESEARCH RELATED ACTIVITIES:

1. RCU Newsletters were mailed monthly to parish school superintendents, vocational-technical school directors and the professional staff members of the Louisiana State Department of Education giving topics of interest on materials available on newly received ERIC Microfiche and other research information.

2. Dissemination of microfiche by request to school personnel for upgrading vocational education and career education program planning and implementation.

3. Monitoring Part C research projects in progress.

4. Monitoring Part D, Commissioner's Fund, Exemplary Project.

5. Completed a feasibility study for the establishment of a vocational-technical school in Claiborne Parish.

6. Completed reclassification and filing of all research materials in the Research Coordinating Unit Library.

7. Assisted in planning for the implementation of the Career Education budget for post-secondary vocational-technical school programs.

8. Regional Conference on Special Projects in Dallas.

Louisiana

9. Louisiana Teachers' Association Convention, New Orleans
10. Home Economics Educators' Workshop.
11. Louisiana School Boards Association Career Education Workshops.
12. Cooperative Education Workshop.

PROJECTS AND ACTIVITIES PLANNED: Not indicated

MAINE

Elwood A. Padham, State Director for Vocational Education
Charles W. Ryan, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

Recommended for Funding:

1. "Satellite Career Center," Cumberland, Maine.

2. "GIVE - Geographically Isolated Vocational Education," SAD #2 and SAD #12, Greenville and Jackman, Maine.

3. "Career Days," Hall-Dale High School, Hallowell, Maine.

4. "The Self-Directed Career Program As A Tool For Presenting Career Information to Ninth Grade Students, "Bangor, Public Schools, Bangor, Maine.

5. "National Instructional Television Bread and Butterflies Career Development Project", University of Maine, Orono and National Instruction Television, Bloomington, Indiana.

6. "Center for Educational and Field Service and Research," University of Maine at Portland-Gorham.

7. "ACT - Awareness, Careers, Transition," Dexter Regional Technical Vocational Center, Dexter, Maine.

8. "Consortium Counselor Project," University of Maine, Augusta, Maine, (Second Year).

RESEARCH RELATED ACTIVITIES:

1. Consultant Services - The following agencies were provided consultant services:

   a. Dr. Frank Vitro, Associate Professor of Education, University of Maine, Orono-Proposal Development Services.

   b. Mr. Robert Fox, National Instructional Television, Bloomington, Indiana - Suggestions for developing a Maine Consortium to support Bread and Butterflies.

c. Mr. Carl Butler, State Dept. of Educational & Cultural Services, Bureau of Vocational Education - Review of Fort Kent, Maine Project - Suggested evaluation procedure to be followed.

d. Dr. Charles Smith - Discussed cooperative relationships with the Research Coordinating Unit and Bureau of Vocational Education and University of Maine at Portland-Gorham Center for Field Services.

e. Mr. Alan Campbell, Director, Dexter Regional Vocational Technical Center - Provided consultant and review service for Part C proposal, FY 1974 Discretionary funds.

f. Dr. Dean Bennett, Yarmouth Academy, Yarmouth, Maine - Provided advice on proposal development for submission under Part D, Vocational Education Act.

g. Mr. Phil Judd, Medical Associates of Maine. Provided technical advice for development of a proposal to be submitted under a National Science Foundation Requests for Proposals. Agreed to review and critique proposal at a later date.

2. Presentations to the following groups:

a. "Career Education in the Elementary Grades," Archidocese of Cincinnati, Ohio, Sept. 12, 1973.

b. "Career Education in the Elementary School," - Presentation to Administrative Staff, Portland Schools, Oct. 17, 1973.

3. Conference Attendance and Participation:

a. New England Personnel and Guidance Conference, Oct 14-16, 1973. Presentation on "Career Education in the Open School."

b. World of Work and Economic Education - Career Education Conference, University of Maine, Orono, October 18, 1973. Presentation of "Career Education."

c. Presentation to Fairfield, Connecticut Teacher Conference on Oct. 26, 1973. Topic, "Career Education in the Schools."

d. American Vocational Association National Conference, Atlanta, Georgia, Nov. 30, 1973 to Dec. 5, 1974.

Maine

Internal Affiars:

a. Provided statistical data for Federal report being compiled by Whitney Newcomb, Operations Officer.

b. Reviewed "Longley Report" recommendations for cost savings in the Bureau of Vocational Education. Provided suggestions to Elwood A. Padham, Associate Commissioner, Bureau of Vocational Education, regarding implementation of recommendations.

c. Reviewed all evaluation reports for Part D and C projects.

d. Established a visitation schedule for FY 1974 Part C and D and carry-over projects.

e. Reviewed Maine State Plan for Vocational Education for assessment of research and development activities. What goals had been accomplished and what remains to be initiated, October 23, 1973.

f. Visited "Independent Living" project on Nov. 8, 1973 and conferred with staff.

g. Visited "Career Outreach Program" University of Maine at Farmington on November 15, 1973 and conferred with staff.

h. Visited S.A.D. #9 Farmington, Maine to confer with staff regarding status of three (3) funded Part D and C projects. Part C project is funded out of the USOE, the other two are funded under Part D monies allocated to the state.

i. Conducted teacher training for career "education institute." July - August, 1973.

PROJECTS AND ACTIVITIES PLANNED:

Not indicated

MARYLAND

James L. Reid: State Director for Vocational Education

Marinus A. Kip: RCU Director

PROJECTS COMPLETED:

Not Reported

NEW PROJECTS FUNDED:

1. "A Study to determine the Effectiveness of Multimodeling Individualized Instructional Packages in Teaching Seminar Methodology to Occupational Industrial Education Teachers", University of Maryland.

2. "Food Service Man Power Study", Chesapeake College

3. "Study of the Effects of Career Education", Prince George's County.

4. Project "ACE" - Approaches to Career Education", Baltimore County.

5. "Career Information Resource Center for Learning Experience", Baltimore County.

RESEARCH RELATED ACTIVITIES:

During the first half of FY 1974, the Maryland Vocational Research Coordinating Unit continued its operations in the four major areas of assigned responsibilities:

1. The Vocational Student-Teacher Data System.

2. The High School Graduate Follow-up Study.

3. Vocational Program Evaluation

4. Coordination of Part C Research

PROJECTS AND ACTIVITIES PLANNED:

Continue:

1. The Vocational Student-Teacher Data System

Maryland

2. The High School Graduate Follow-up Study.

3. Vocational Program Evaluation.

4. Coordination of Part C Research

MASSACHUSETTS

Charles Buzzell, State Director of Vocational Education

Jack Sweeney, RCU Director

NO REPORTS RECEIVED

MICHIGAN

Addison Hobbs, State Director for Vocational Education
Stanley Rumbaugh, RCU Director
J. P. Bebermeyer, Consultant, RCU

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Mobile Career Development Project.

2. Educational & Career Exploration System (ECES) Project.

RESEARCH RELATED ACTIVITIES:

1. Assisted in planning and conducting career education consortium conference for 125 teacher educators.

2. Technical consultation to development of improved vocational education funding system.

3. Assisted in exemplary project evaluations.

4. Assisted in research project monitoring.

5. Made career education model development plans.

6. Continued development of computerized Vocational Education Support System.

7. Analyzed data and wrote report of extent of occupational education and career education in State.

8. Planning completed for third phase of Career Achievement Skills Training project.

9. Consultation continued to Michigan State Advisory Council for Vocational Education.

PROJECTS AND ACTIVITIES PLANNED:

1. Advise in implementation of improved vocational education funding system.

2. Assist with operation of career education consortium of teacher-training institutions.

3. Analysis of exemplary project data.

Michigan

4. Monitor expenditure of $225,000 by teacher training institutions for vocational education purposes.

5. Continue monitoring R & D projects.

6. Prepare dissemination plans for R & D projects.

7. Continue development of computerized vocational education information support system.

8. Prepare materials for clarification and dissemination of career education concept in Michigan.

9. Design and begin development of career education program.

10. Plan and begin execution of career education dissemination stragtegy.

11. Continue consultation to Michigan State Advisory Council for Vocational Education.

12. Complete evaluation of seven Part D exemplary projects.

13. Conduct training for users of information support system.

MINNESOTA

Robert P. Van Tries, State Director for Vocational Education
Melvin E. Johnson, Director Program Planning and Development
Jerome Moss, Jr. RCU Director

PROJECTS COMPLETED:

1. Pilot for International Learning and Occupational Training in Cosmetology; St. Paul Technical-Vocational Institute.

2. Area School Follow-U System; University of Minnesota.

3. Project Opportunity (An Individualized Approach to Training Licensed Practical Nurses) Phase II; Anoka Vocational-Technical Institute.

NEW PROJECTS FUNDED:

1. Area School Follow-Up System, Dr. David J. Pucel, University of Minnesota.

2. Research Coordinating Unit for Vocational Education, Dr. Jerome Moss, Jr., University of Minnesota

3. An Innovative Pilot Program for the Dental Assistant Program: Phase II, Ms. Marilyn Anderson, Canby Area Vocational-Technical Institute.

4. To Develop a Federal Legislation Mode; that will Provide a Major Role for the Public Educational System in Providing Vocational-Technical Education to Develop the Nation's Manpower Resources, Dr. Jerome Moss, Jr., Division of Vocational-Technical Education, University of Minnesota.

5. To Develop Forms and Procedures in Regard to the Distribution of State and Federal Monies Used for Vocational-Technical Education, Dr. Gary Mohrenweiser, Educational Management Services, Inc.

6. Developing Articulated High School and Post High School Vocational Curriculums, Phase II, Dr. Jerome Moss, Jr., Minnesota Research Coordinating Unit for Vocational Education.

7. Project Opportunity, Phase III, Donna Richardson, Anoka Area Vocational-Technical Institute.

8. VIEW and MATCH Project, Harold Grudem, Dakota County Area Vocational-Technical Institute.

9. International Vocational Studies in Fashion Merchandising and Designing, Eugene P. Jereczek, Suburban Hennepin County Area Vocational-Technical Institute.

10. Project Share: Providing Relevant Supplies and Equipment for Vocational Education in Minnesota, Jerry Johnson, Detroit Lakes Area Vocational-Technical Institute.

11. Career Education in English, Vern Vick & Judy Larsen, Roseville Area Schools.

12. Career Education for Urban Youth - Phase II, Harold T. Lehto, Independent School District No. 625, St. Paul

RESEARCH RELATED ACTIVITIES:

1. Development of evaluative instruments and procedures for measuring congnitive and affective behavior related to career education.

PROJECTS AND ACTIVITIES PLANNED:

1. Continuation of on-going projects.

2. Examination of issues, problems, and concerns related to career education curriculum materials dissemination and diffusion will be initiated.

3. Problems associated with vocational education evaluation will be revised.

MISSISSIPPI

Troy V. Majure, State Director for Vocational Education
James E. Wall, RUC Director
James F. Shill, Associate RCU Director

PROJECTS COMPLETED:

1. Work Values and Job Attitudes Held by New Teachers in Vocational Education in Mississippi, Herbert M. Handley and James F. Shill.

2. Assessment of Preservice Vocational Teacher Education in Mississippi. James F. Shill and Herbert M. Handley.

3. Assessment of Inservice Vocational Teacher Education in Mississippi. Herbert M. Handley and James F. Shill

4. Handbook of Inservice Vocational Teacher Education in Mississippi. Norbert Johnson and Joe McDaniel.

5. Essentials of Job Success. John F. Perry.

6. Mississippi Career-Centered Curriculum - Awareness Phase. Louie Kemp, et al.

7. Mississippi Career-Centered Curriculum - Exploration I. Louie Kemp, et al.

8. Mississippi Career-Centered Curriculum - Exploration II. Louie Kemp, et al.

9. Mississippi Career-Centered Curriculum - Preparation. Louie Kemp, et al.

10. Planning Post-Secondary Programs for Agribusiness Natural Resources and Environmental Protection Occupations. Gary F. Beasley.

11. Work and Life Adjustment Skills. Howard L. Newby and Keith Herring.

12. Junior College Guide for Training Service Specialists in Automotive Systems. Kent Brooks.

NEW PROJECTS FUNDED:

Not indicated.

Mississippi

RESEARCH RELATED ACTIVITIES:

DISSEMINATION ACTIVITIES:

A. Research

1. Annual Report of the Mississippi Research Coordinating Unit (Fiscal Year 1973). James E. Wall and James F. Shill (Mississippi State University, Research Coordinating Unit, College of Education, Report 8008, Administrative Series 3, July 1973.)

2. The Northeast Mississippi Career Education Opportunities Program - Quarterly Report. J. H. McMinn, R. G. Shoemake, and J. F. Shill (September, 1973)

3. An Urban Career Education Program in the Mississippi Delta - Quarterly Report. J. H. McMinn, E. L. Thomas and J. F. Shill (December, 1973)

4. The Northeast Mississippi Career Education Opportunities Program - Quarterly Report. J. H. McMinn, R. G. Shoemake, and J. F. Shill (December, 1973).

5. Career Education Programs in Louisville, McComb and Winona School Systems - Quarterly Report. J. H. McMinn, E. L. Thomas, and J. F. Shill (September, 1973)

6. Career Education Programs in Louisville, McComb and Winona School Systems - Quarterly Report. J. H. McMinn, E. L. Thomas, and J. F. Shill (December, 1973)

7. Assessment of Preservice Vocational Teacher Education in Mississippi. James F. Shill and Herbert M. Handley (Mississippi State University, Research and Curriculum Unit, College of Education, Report 8005, July 1973).

8. Assessment of Inservice Vocational Teacher Education in Mississippi. Herbert M. Handley and James F. Shill (Mississippi State University, Research and Curriculum Unit, College of Education, Report 8006, July 1973.)

9. Work Values and Job Attitudes Held by New Teachers in Vocational Education in Mississippi. Herbert M. Handley and James F. Shill (Mississippi State University, Research and Curriculum Unit, College of Education, Report 8007, July 1973).

10. Research personnel utilize professional meetings, workshops, seminars, preservice and inservice courses as vehicles for dissemination of research findings.

11. All individual requests for research information were complied with during the period, even though some requests were for other than vocational-technical education information. The Mississippi RCU will continue to fill such requests insofar as possible. This is being done in the interest of furthering interdisciplinary and interagency cooperation.

A. Curriculum

1. New Curriculum Materials Developed and Disseminated During This Period:

(a) Handbook for Vocational Counselors, Norbet Johnson
(b) Essential of Job Success - 20 Part Series, John F. Perry
(c) Career Centered Curriculum: Awareness. Louie Kemp, et al (LK)
(d) Career Centered Curriculum: Exploration I. LK
(e) Career Centered Curriculum: Exploration II. LK
(f) Career Centered Curriculum: Preparation. LK
(g) Work & Life Adjustment Skills. Howard Newby and Keith Herring
(h) A Guide for Planning Post-Secondary Programs for Agri-business Natural. Gary F. Beasley
(1) Resources and Environmental Protection Occupations. Gary F. Beasley
(j) Junior College Guide for Training Service Specialists In Automotive Systesm. Kent Brooks

2. New Start-up Materials Developed and Disseminated During This Period:

-Wilton Castings Training Guide. Howard I. Newby
-Orientation and Preliminary Training Information, Wagner Electric Corporation. Howary L. Newby
-The Lithographic Printing Process Instructor's Guide - Orientation. Keith Herring (KH)
-The Lithographic Printing Process Instructor's Guide - Typing & Proofreading. KH
-The Lithographic Printing Process Instructor's Guide - Photocomposition. KH
-The Lithographic Printing Process Instructor's Guide - Paste-up and Stripping KH
-The Lithographic Printing Process Instructor's Guide - Web Press Operation and Finishing. KH

-The Lithographic Printing Process Trainees Manual - Typing and Proofreading. KH
-The Lithographic Printing Process Trainees Manual - Photocomposition. KH
-The Lithographic Printing Process Trainees Manual - Paste-up and Stripping. KH
-The Lithographic Printing Process Trainees Manual - Web Press Operation and Finishing. KH
-The Structure of a Tree - PLC #1. Gary F. Beasley (GB)
-Growth Characteristis - PLC #2. GB
-Introduction to Lumber Grading - PLC #3. GB
-Commercial wood Species - PLC #4. GB
-Softwood Lumber Grades - PLC #5. GB
-A Pre-Employment Training Manual: Southern Pine Sawmill. GB
-Pre-Employment Training for a Southern Pine Sawmill: Instructor's Guide. GB
-The Forestry Industry and Its Importance. GB
-Weyerhaeuser High Yield Forestry. GB.
-Glossary of Terms: Forest Products Mill. GB
-Policy Statement on Safety: Weyerhaeuser. GB
-Safety in Your Future. GB
-A Guide to Grading Features in Southern Pine Logs and Trees. GB
-Graders Manual for Boards and 2" Dimension Grades. GB
-1970 Standard Grading Rules. GB
-Basic Mathematics and Measurement for Lumber Industries. GB
-Job Descriptions and Operating Procedures Manual: Wood Products Mill. GB
-Orientation Guide Universal Electric Company, Kosciusko, MS. Kent Brooks (KB)
-D-Handle Portable Electric Power Tools and Assembly. KB
-D-Handle Portable Electric Power Tools Machining of Aluminum Castings. KB
-Pre-Employment Training Program, Milwaukee Electric Tool Coorporation: Planning Guide. KB.
-Instructors Resource Manual, Milwaukee Electric Tool Coorporation. KB
-Shaft Manufacturing, Holley Carburetor: Analysis of Training Needs. KB

3. Previously Developed or Purchased Materials Disseminated During This Period:

A total of 13,144 publications consisting of 141 different titles were distributed during this period.

Mississippi

PROJECTS AND ACTIVITIES PLANNED:

Not Indicated.

MISSOURI

B. W. Robinson, State Director for Vocational Education
Glenn W. White, RCU Director

PROJECTS COMPLETED:

1. A Demonstration Project of Job Placement, Program Promotion and Development Services for Post-Secondary Agri-Business Career Programs in Missouri Community Colleges, State Fair Comm. College.

2. A Five County Study of Adult Educational Needs, A.C. Sullivan, Mineral Area College

3. Effects on Attitudes and Knowledge of Vocational Administrators Exposed to New Management Techniques, H.D. Kazanas, University of Missouri-Columbia

4. Curriculum Technologies Development, J. D. Cornett, Penn Valley Comm. College

5. Development and Application of a Proficiency Profile System for Placement of Vocational-Technical Program Graduates, Gerald Weaver, East Central Jr. College

6. Industry-Education Cooperation in Providing Career Education, Lawrence C. Drake, Southwest Missouri State

7. Development of a Model Local Application for Receiving Vocational Program Funding, Franklin J. King, University of Missouri-Columbia

8. Statewide Post-Secondary Agricultural Chemical (Application and Control) Curriculum Study, Marvin Fielding, State Fair Comm. College

9. Development of a 16mm Film Titled "Dynamic Careers in Agri-Business" for Post Secondary Agri-Business Graduates in Missouri, Nila Hibdon State Fair Comm College.

10. Career Development Planning for grades K-8, Benny L. Gooden, Montgomery Co. R-II

11. Improvement of Vocational Counseling Service, Marthajane Sell.

12. Opportunities in the Engineering Technologies, Ron Greathouse, Longview Comm. College.

Missouri

13. Survey of Area Vocational Needs, Kenneth Lewis, Raytown C-2 Schools.

14. Career Opportunities in Parkway, James Garrison, Parkway School District

15. Preliminary Data Collection for Revision of K-12 Communications Skills Curicula, Alvin J. Lager

16. Development of Career Level course: Science Activities for Children, Peter H. Kellems

17. Selected Personality Traits and Role Perceptions of Beginning Vocational Education Teachers in Missouri, Kolan Bisbee, Univ. of Missouri-Columbia

18. Case Studies of Utilization of Graduate Technicians in Industry, Wm Schallert

19. A Pilot Program to Identify the Competencies Development of Objectives and Determination of Problems Included in Agricultural Curricula being offered by Post-Secondary Institutions of Missouri, Nila Hibdon, State Fair Comm. College.

NEW PROJECTS FUNDED:

Not indicated

RESEARCH RELATED ACTIVITIES:

1. Conducting information retrieval and dissemination activities including a total of 350 searches resulting in distribution of 1,540 microfiche.

2. Participated as visiting chairman in one on-site vocational-technical evaluation.

3. Provided consultative assistance to 28 principal investigators in carrying out project proposals.

4. Completed user's survey of the recipients of the Resource Directory. Survey included 2,250 users.

5. Appointed chairman to work with a committee representing post-secondary vocational-technical programs to develop rationale and procedures for on-site evaluations.

Missouri

6. Revised, printed and distributed to local school districts the Student Accounting Component form (SAC-1) and Class Summary form (SAC-CS).

7. Conducted five MOTIS (Missouri Occupational Training Information System) workshops for the purpose of suggesting ways in which the data could best be used by decision makers.

8. Conducted five additional workshops to explain the revisions made in the survey instruments.

9. Developed and published MOTIS Cycle I reports entitled "MOTIS 1972-73 School Year Report" and "MOTIS 1973 Technical Report".

10. Continued MOTIS 120 day vocational follow up of last school years completors.

PROJECTS AND ACTIVITIES PLANNED:

1. Continue activities in information retrieval and dissemination.

2. Monitor approved research projects.

3. Continue development of materials, methods and procedures for the Demand Component, Student Accounting Component, Resource Inventory Component, and Manpower Supply Component.

MONTANA

Benjamin Ulmer, State Director for Vocational Education
Robert Lehman, RCU Director

PROJECTS COMPLETED:

Not indicated

NEW PROJECTS FUNDED:

1. Agriculture workers competency studies, Dr. Max Anderson Montana State University.

RESEARCH RELATED ACTIVITIES:

1. Designed Vo-Ed high school reporting form to replace Exit/Entry/Follow-up card; distributed new Vo-Ed information forms to over 100 Montana High Schools; designed computerized reporting procedures; met with Vocational-Technical Center personnel to design post-secondary enrollment forms; screened and coded returned forms.

2. Reviewed and accepted agricultural occupations competency studies; distributed competency studies.

3. Attended Western Regional RCU Directors' meeting.

4. Presentations to Montana Chamber of Commerce on agriculture employment opportunities.

5. Completed annual audit of Career Awareness Program evaluation and recommended new evaluations; helped draft contract for new evaluation on Career Awareness Program.

6. Designed enrollment reporting procedures for state institutions with vocational program.

7. Helped write proposal for local districts requesting state building funds.

8. Attended American Vocational Association Convention in Atlanta; participated in panel presentation (Montana's Vocational Education Management Information System).

9. Consulted with the Ohio State Center for Vocational Education on planning information systems for state educational agencies' use in helping Special Needs students.

Montana

10. Examined Oregon vocational education competency bank in Salem.

PROJECTS AND ACTIVITIES PLANNED:

1. Develop comprehensive competency bank for use by vocational education state supervisors and instructors.

2. Continue audit of Career Awareness Project.

3. Implement post-secondary portion of the Vo-Ed Information System.

4. Initiate follow-up stage for secondary portion of the Vo-Ed Information System.

5. Assist the Vocational and Occupational Skills Component in planning and evaluation as needed.

NEBRASKA

Glen H. Strain, State Director for Vocational Education
Elton B. Mendenhall, RCU Director

PROJECTS COMPLETED:

1. Nebraska Vocational Technical Graduate Follow-Up and Information Dissemination System - Center for Vocational-Technical Education, Kearney.

RESEARCH RELATED ACTIVITIES:

1. Dissemination Activity - Monthly Newsletters, 2,400
   - LRC Documents checked out 216
   - Persons served in the office 179
   - 1973 Postsecondary Offerings = 850
   - LRC Bibliography = 240
   - Occupational Opportunities Report 1973 = 2,161
   - Advisory Council publications - 1,609
   - Computer Searches for ERIC = 10

2. Provided instruction or information to: summer school classes, comprehensive Health Manpower Planning, Nebraska State Board of Technical Community Colleges, Nebraska Professional Counseling and Guidance Association, teachers associations, and various other groups.

3. Attended RCU Directors Conference in Chicago.

4. Participation in EPDA Career Education Workshop for Teacher Educators.

5. Carried on necessary preliminary activities for the 1974 Occupational Opportunities Report including recruiting and training of 42 interviewers.

6. Assisted in planning and attended Health Manpower Planning Conferences.

7. Presentation of resources for Career Education to Lincoln Public Schools Career Education Project Staff and cadre.

8. Planning committee for EPDA 4-state regional conference for vocational reacher educators.

Nebraska

9. Reviewed expansion of RCU activities with Division of Vocational Education and State Technical Community College Board.

10. Discussed plans for Statewide Management Information System for Vocational Education with Division of Vocational Education and Submitted proposal to USOE.

11. Conducted third party evaluation for Milford Career Education project for U.S. Commissioner's Part C Discretionary Awards.

12. Prepared a report on Agriculture and Health Occupations to the Governor's Committee on Hiram Scott College.

13. Participated in University assessment activity through Goal II Committee for Teachers College (graduate opportunities).

14. Assisted planning activities for Career Education Inservice for Lincoln Public Schools' Career Education Project Staff and Teachers.

15. Served as Resource Person to University of Nebraska EPDA Workshop on Career Education.

PROJECTS AND ACTIVITIES PLANNED:

1. Presentations of Research and Exemplary Proposals to State Board for Vocational Education

2. Budget and Programming plans for FY 1975 RCU contract with University of Nebraska.

3. Complete coding activities, compilation of data, programming, publication, and dissemination of 1974 Occupational Opportunities Report.

4. Third party evaluation of U.S. Commissioner's Discretionary Award Career Education Project at Kimball, Nebraska.

NEVADA

R. Courtney Riley, State Director for Vocational Education
Jake Huber, RCU Director

PROJECTS COMPLETED:

NONE

NEW PROJECTS FUNDED:

NONE

RESEARCH RELATED ACTIVITIES:

1. The RCU has been very active in its monitoring capacity of all Part C and D (commissioner's funded and stated funded) projects. There were four such projects in operation. The monitoring duties of the RCU assume the role of:

   Assuring project compliance with state and Federal regulations.

   Keeping abreast of project progress for purposes of problem identification (if any), progress reporting to state and Federal personnel, and to assure compliance with the agreed upon work statement.

   Providing technical or consultative assistance, upon request, to project staff. This latter function is perhaps the most important, most time consuming, and most helpful function that the RCU provides to project staff. It will be very actively provided in the months to come.

2. The RCU Curriculum and Resource Library has and the following usage:

   56 walk-in users

   31 phone and mail requests for information

   29 information search requests

3. "RCU Report"Newsletter--Four issues of the newsletter have been printed and disseminated to 1,100 educators in Nevada plus 250 people across the nation. See Attachment "A" (copies of newsletters for this period).

4. Consultant Services-- This activity of the RCU has been where the majority of emphasis has been applied. Consultant services (non-fee, of course.) have been provided to LEA and SEA for program planning, program review, proposal development, and program technical assistance.

   Ours is a small state in terms of population (485,000 people by 1970 census) and a large state geographically speaking (110,540 square miles). With an average of 4.4 people per square mile, it is not difficult to see that an information dissemination system for our State must take some rather unique forms. Consequently, when a request is received from a school district, our reaction (depending upon the request) is to research their problem in our resource collection, gather and synthesize the information, and then go meet them armed with selected information relevant to their needs. We have found this technique to be quite successful in that it:

   a. allows for personal involvement and assistance in the LEA's problems.

   b. reduces the number of "unnecessary" requests.

   c. reduces the total amount of information they must review.

   d. increases the sophistication of the user in terms of formulating his search statement and limiting the scope of his search. Through personal interaction with user, he is advised of certain search procedures and techniques. Thereafter, his information requests can be satisfied by phone and mail.

   e. serves to further develop familiarity and rapport between the SEA and the individual LEA's.

5. Conferences attended:

   a. Western Regional RCU Conference, July 30 and 31, 1973.

   b. Nevada Vocational Association Convention, August 20 through 25, 1973, Dallas, Texas.

   c. Career Education Conference, September 8, 1973, Ely, Nevada.

d. Vocational Teacher Education Seminar, October 22 through 25, 1973, Dallas Texas

e. Southern Nevada Business Education Association Conference, October 27, 1973, Las Vegas, Nevada.

f. American Vocational Association Convention, December 1, through 4, 1973, Atlanta, Georgia.

PROJECTS AND ACTIVITIES PLANNED:

1. Publication and dissemination of the "RCU Report" (newsletter).

2. Publication and dissemination of selected research relevant to Nevada's vocational educators.

3. Continuation and expansion of RCU curriculum and resource identification, acquisition, and dissemination activities.

4. Monitoring of Part "C" and "D" funded projects.

5. Continued consulting services to field personnel, LEA, SEA, advisory council, etc.

6. Development of a staff development program to improve or otherwise upgrade the R&D skills, and R&D management expertise of Nevada's LEA and SEA staff.

7. Act as a resource person in the development of a statewide plan for the implementation of career education.

NEW HAMPSHIRE

Neal D. Andrew, State Director of Vocational Education

Gloria Cooper, RCU Director

NO REPORTS RECEIVED

NEW JERSEY

Stephen Poliacik, State Director for Vocational Education
Joeseph Kelly, RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Immigrant Info. Service Agency, Essex Co. College.
2. Needs Assessment, Hudson Co. Voc. School
3. Planning, Hudson Co. Voc. School
4. Training Workshops, Trenton State College
5. Career Resource Center, Edison Township
6. Orientation to World of Work, Dr. Goldstein, Rutgers University.
7. Technology for Children Study, Dr. Kievit, Rutgers University.
8. Research Grant, Rutgers University (Staff)

RESEARCH RELATED ACTIVITIES:

1. Prepared Special Papers
   a. Feedback
   b. Career Education Progress
   c. Current Research
2. Staff conducted numerous workshops on Career Education.
3. Staff assisted in preparation of 16mm Sound and Color Film on Career Development titled "Choice not Chance."
4. Conducted workshops of research utilization and dissemination.
5. Assisted local school districts to establish career resource centers.

PROJECTS AND ACTIVITIES PLANNED:

1. Automated Student Reports and Follow-Up
2. Prepare Additional Special Papers

NEW MEXICO

James B. West, State Director for Vocational Education
Roger A. Labodda, RUC Director

PROJECTS COMPLETED:

1. Career Ladder Concept in Health Occupations, Mary Jane Fogal.
2. Career Education Program K-6, Ron Baker
3. Taft Junior High School Career Education, Nelson Lowery

NEW PROJECTS FUNDED:

1. Implementation of Career Education in New Mexico, Dr. Jean Page
2. Career Implementation Program for a Small Rural School, Penasco, Paul Shelford
3. North Area (APS) Career Education K-9, Nelson Lowery.
4. Socorro Municipal Schools Career Education Project, Gilbert Gadaldon
5. Curriculum Development, George Amsbary.
6. Farm Business Management, Calf-Raising, Hilario Maes
7. Dona Anna Branch Career Ladder Nursing, Margaret Scarbrough

RESEARCH RELATED ACTIVITIES:

1. Writing of Annual Report.
2. Fourth Annual Vocational Education Conference - Las Cruces, N.M.
3. Monitored new project for the Penasco School System - Part D.
4. Attended Western States RCU Conference.
5. Submitted proposals for Part C for FY 75.
6. Reported on Manpower needs in the state.
7. Implemented state-wide inventory system.
8. Implemented computer-based information system.

New Mexico

9. Tabulated data base dor new vocational finance formula.
10. Monitored Career Education Dissemination Project -- Part C.
11. Statistical Report: Women in the World of Work (N.M.)
12. Monitored Career Education Courses, Part F.
13. Monitored Innovative Workshops for Teachers of Industrial Education, Part F.
14. Monitored Industrial Arts Curriculum Project (IACP), Part F
15. Monitored Computer Aided Graphics Workshop, Part F
16. Monitored Career Education Information in the Elementary Grades, Part F.

PROJECTS AND ACTIVITIES PLANNED:

1. Writing of State Plan.
2. Submittal of proposal for Part F, EPDA.
3. Continuation of Manpower Reports.
4. Planning for 5th Annual Vocational Education Conference.
5. Participation in Spring Workshops for the State.
6. Conduct of Three-day workshops for state staff.
7. Continuation of data retrieval for the Vocational Information System.
8. Finalization of third party evaluator contract for Part C project.
9. Continued advisement to the Part D Exemplary Advisory Committee.

NEW YORK

Robert S. Seckendorf, State Director for Vocational Education
Louis A Cohen, RCU Director

PROJECTS COMPLETED:

Not indicated

NEW PROJECTS FUNDED:

Included in "Research Related Activities" section.

RESEARCH RELATED ACTIVITIES:

A. Development of Internal Projects;

1. Career education project site visits made in Syracuse, Yonkers, Poughkeepsie, Spencer Van Etten, Ithaca, Rensselaer, Oneonta, Binghamton, Broome-Tioga, and Delmar Schools. A staff member is receiving monthly career education evaluation reports from over 24 funded projects.

2. Staff members continue tasks related to the operation of the Evaluation Service Center for Occupational Education.

3. Data collected for Industrial Arts Teacher Mobility Study. Analysis and report due in Spring 1974.

4. A Staff member developed a proposal for the development of a model for the installation of reading in the occupational education area.

5. Preliminary discussions were held concerning the development of a cost benefit/cost analysis study.

6. School board election procedures and results were gathered from around the State and a brief on proportional representation: History and New York City Application was prepared.

7. Specifications for a software component of ESCOE (Evalutation Service Center for Occupational Education) are being developed.

8. Phase II of Licenses, Permits, and other Certification Credentials was completed. This document relates to nongovernmental sources.

9. Returns for the Travel Agency Counselor study are in and have been keypunched. An initial draft has been prepared and is now being revised.

10. The Values Position Paper was rewritten.

11. A project was begun on research and reorganization of New York State Youth Clubs.

B. Consultive Services:

1. Lakeside BOCES

2. Albany BOCES

3. Marian College

4. Dyett School of Nursing, Buffalo

5. Suffolk County BOCES

6. Washington/Warren BOCES

7. Special Programs in Career Education (SPICE), New York City.

8. City University of New York Research and Development Center

9. Rockland County BOCES

10. Westchester County BOCES

11. Sycracuse University Research Center

12. Project Mercury, SUNY at Albany

13. Cornell Research and Development Center

C. Conference Attendance:

1. American Vocational Association Conference

2. Special Programs to Implement Career Education

3. Chautaugua BOCES Inservice Day

4. Business Department, Nassau County Community College

5. American Personnel and Guidance Association Conference

6. New York City Industrial Arts Teachers Conference

New York

7. Health Occupations Education Staff, Rockland County BOCES
8. Class of area school adminstrators, Emma Willard School
9. Co-op Education Educators, New Jersey Department of Education
10. National Educational Research Association Conference
11. Saratoga BOCES

PROJECTS AND ACTIVITIES PLANNED:

Not indicated

NORTH CAROLINA

Charles J. Law, State Director for Vocational Education
Charles Rogers, RCU Director

PROJECTS COMPLETED:

1. Title: "The Development of a Community Occupational Evaluation Center"
   Objective: To develop and operate a community based Occupational Evaluation Center which offers a multitude of services centered around assessing the needs, desires, characteristics, and potential of occupationally and employable disadvantaged and handicapped individuals as a prelude to their becoming employed; additionally, an overall major function of the Center is to coordinate the services of various cooperating agencies and institutions dedicated to the rehabilitation of occupationally and employably disadvantaged and handicapped adults.
   Agency: Halifax County Technical Institute of Weldon

2. Title: "The Planning of an Area Occupational Evaluation Program in North Carolina Multi-County Planning Regions L, Q, and R".
   Objective: To plan the establishment of an area occupational evaluation program which offers a multitude of services centered around assessing the needs, desires, characteristics, and potential of occupationally and employably disadvantaged and handicapped individuals as a prelude to their becoming employed; this project is a planning extension of a completed project.
   Agency: Nash Technical Institute at Rocky Mount

3. Title: "Special Tabulation of 1970 Census Industry/Occupational Data".
   Objective: To acquire a special tabulation, on computer tape and printouts, of 1970 Census 20-percent data showing intermediate occupational by intermediate industry groups for each of the 100 counties of North Carolina.
   Agency: Bureau of the Census, Social and Economic Statistics Administration, U.S. Department of Commerce at Washington, D.C.

4. Title: "Career Education Summer Project for School Personnel"
   Objective: To develop a method of employing teachers in industry during the summer to provide them additional insight into the world of work which will better prepare them for the school's career education program; a series of tours and seminars will promote effective interaction and cooperation between industry and education.
   Agency: Wake County Schools at Raleigh

North Carolina

5. Title: "Field Test and Revision Activities for the Mathematics and Communications Competency Areas of Distributive Education"
   Objective: To field test, evaluate, and revise the Learning Activity Packages (LAPs) in the mathematics and communication competency areas that were developed in North Carolina during 1971-72 as a part of an eleven-state consortium effort and to field test and prepare evaluations on LAPs prepared in the merchandizing area in Iowa.
   Agency: University of North Carolina at Greensboro.

6. Title: "The Development of an Occupational Education Model for Primary Grades"
   Objective: To develop an Instructional program of occupational awareness for primary aged children based upon the existing social studies curriculum; the instruction relies heavily upon the technique of "dramatic play"
   Agency: Frank Porter Graham Child Development Center, University of North Carolina at Chapel Hill.

NEW PROJECTS FUNDED:

1. Title: "The Dissemination of Local-Level, Long-Range Planning Systems to North Carolina Technical Institutes and Community Colleges"
   Objective: To disseminate the local-level, long-range planning systems developed in a completed project to all North Carolina technical institutes and community colleges.
   Agency: North Carolina Department of Community Colleges at Raleigh.

2. Title: "The Establishment of an Instructional Materials Dissemination Process Serving the Division of Occupational Education"
   Agency: Division of Occupational Education, State Department Public Instruction.

RESEARCH RELATED ACTIVITIES:

1. Continued consultation with and monitoring of 10 research projects in operation.

2. Consulted in the planning of 10 proposals submitted to the U.S. Commissioner of Education using funds from Title I-Part C-Section 131(a) of P. L. 90-576.

3. Participated in two Occupational Education Research Review Panels in the Department of Public Instruction and Community Colleges.

4. Participated in the determination of occupational education research needs in the Community College System

5. Two staff members attended the Annual Convention of the American Vocational Association in Atlanta.

6. Provided leadership and technical assistance in the submission of a proposal to The Rockefeller Foundation to plan an area occupational evaluation program in three North Carolina multi-county planning regions.

7. Consulted in the preparation of five proposals using funds from Title I-Part D of P. L. 90-576.

8. Edited an edition of "Flame," publication of the ORU with a circulation of 10,000.

9. Consulted with officials of The Rockefeller Foundation in New York City on a project proposal.

10. Assisted Division of Occupational Education to develop summer in-service workshops - 4 workshops involving 170 teachers and administrators.

11. Developed and implemented plan to install and field-test curriculum materials in 16 local school sites.

12. Two staff members attended Southwide Research Coordinating Council, for Occupational Education in Nashville, Tennessee.

13. Worked with staff of State Department of Public Instruction to develop Career Education evaluation model.

14. Assisted The Ohio State Center for Vocational and Technical Education in research study in the area of dissemination.

15. Began development of 30 minute TV program highlighting activities of Division of Research and Occupational Research Unit.

PROJECTS AND ACTIVITIES PLANNED:

1. Complete the planning and funding of a project entitled "Profile of Students in North Carolina Community Colleges and Technical Institutes, 1974"

2. Consultation with and monitoring of 8 research projects in operation.

North Carolina

3. Complete the determination of occupational education research needs in the Community College System and Secondary Schools.

4. Participate in the summarization of research needs in occupational education in the State and the recommendation of research priorities.

5. Complete consultation in the planning of proposals submitted to the U.S. Commissioner of Education using funds from Title I-Part C-Section 131(a) of P. L. 90-576.

6. Continue field-test and dissemination of individualized instructional materials.

7. Continue development of a model to evaluate Career Education.

8. Implement a plan to disseminate the results of completed research projects.

9. Design and implement a project to develop individualized instruction materials for middle grades career exploration programs.

10. Continue consultation with and provide technical assistance to the Caldwell Career Education Project supported with funds from Title-I-Part C-Section 131(a) of P. L. 90-576.

Provide leadership in the initiation, development, and funding of approximately $70,000 worth of new research projects in the Community College System and $150,000 in Public Instruction.

12. Continue in the dissemination of results from research projects to the faculty and administration of community colleges and secondary schools.

NORTH DAKOTA

Carrol E. Burchinal, State Director for Vocational Education
Don Eshelby, RCU Director

PROJECTS COMPLETED:

1. North Dakota Farm Management and Records Analysis Study, Dr. Donald Priebe.

NEW PROJECTS FUNDED:

1. Development of Instructional Course of Commonalities for Home Economics and Office Education, Miss Harriet Shurr.

2. Audio-Visual and Study Guides for Agribusiness and Natural Resources, John Nowatzki.

3. Phase One: Follow-up Study of Office Education and Distributive Education Graduates, Dr. Roger Bloomquist.

RESEARCH RELATED ACTIVITIES:

Not indicated

PROJECTS AND ACTIVITIES PLANNED:

Not indicated

OHIO

Byrl R. Shoemaker, State Director for Vocational Education
R. D. Balthaser, RCU Director

PROJECTS COMPLETED:

1. Testing the Ohio Career Development Program (Product Review), Henry M. Brickell Project Director Institute for Educational Development.

2. Development of a Pre-Postsecondary Curriculum in Engineering for High School Students in Grades 11 and 12, Walker J. Huffman Muskingum Area JVS

3. Development of a Pre-Postsecondary Curriculum in Business Administration for High School Students in Grades 11 and 12, R. O. Brinkman Springfield-Clark County JVSD

4. Development of a Pre-Postsecondary Curriculum in Social Sciences for High School Students in Grades 11 and 12, R. O. Brinkman Springfield-Clark County JVSD

5. Development of a Pre-Postsecondary Curriculum in Health Occupations For High School Students in Grades 11 and 12, Dr. Jacob See, Penta County JVSD

6. Analysis of Career Education Needs in Urban Areas, Jack Hornback Council of Great City Schools.

7. Great Lakes Maritime Trades Program, Donald V. Healas, Cleveland City Schools.

8. Vocational School Planning Districts in Ohio. An Economic Evaluation of Foregone Benefits from Limited Participation, Dr. Ismail Ghazalah, Ohio University.

9. Six-Cost Relationships in Ohio's Vocational Schools and Programs: An Ecomonic Study, Dr. Ishmial Ghazalah, Ohio University.

NEW PROJECTS FUNDED:

1. Agriculture Teacher Competency Survey, Eddie A. Moore, Ohio State University.

2. 1974 Career Development Evaluation.

3. Model Legislation for Job Development, Training and Placement, Lowell A Burkett, American Vocational Association.

Ohio

4. Pre-Postsecondary Program Evaluation.
5. Career Development, Nicholas J. Topougis, Akron City Schools.
6. Career Development, Richard Thorbahn, Jr., Benton-Caroll-Salem Local Schools.
7. Career Development, Robert Menarchek, Canton City Schools.
8. Career Development, Jack Ford, Cincinnati City Schools.
9. Career Development, Linda Moran, Clear Fork Valley Local.
10. Career Development, Oliver J. Jones, Cleveland City Schools
11. Career Development, Robert Weals, Columbia City Schools.
12. Career Development, Robert Ramess, Dayton City Schools.
13. Career Development Donald L. Burch, E. Muskingum Local.
14. Career Development, Eugene A. Veverka, Geneva Area City Schools.
15. Career Development, Patrick Corbett, Kirtland Local Schools.
16. Career Development, DeRoy Gorham, Lorain City Schools.
17. Career Development, Mary Anne Elam, Mad River-Green Local Schools.
18. Career Development, Constance K. Carse, Mansfield City Schools.
19. Career Development, Dr. William Rogers, Minford Local Schools.
20. Career Development, Richard E. Thomas, Orrville City Schools.
21. Career Development, Robert W. Fricker, Parma City Schools.
22. Career Development, Dr. John Babel, Princeton City Schools.
23. Career Development, Donald Miller, South-Western City Schools.
24. Career Development, George Deganhart, Springfield City Schools.
25. Career Development, Michael A. Zockle, Warren City Schools.
26. Career Development, Jama Roman, Toledo City Schools.

Ohio

27. Career Development, Louis Cicek, Willoughby-Eastlake City Schools.

28. Career Development, Clay Folsom, Youngstown City Schools

RESEARCH RELATED ACTIVITIES:

1. Transportation Curriculum Project, Edwin T. Petrie Project Director Ohio Department of Education.

2. Automation of Accounting System for Interface with Reporting System, Rex Rowand, Staff Ohio Division of Vocational Education.

3. Program Review for the Improvement, Development and Expansion of Vocation Education and Guidance (PRIDE), James H. Price, Staff Ohio Division of Vocational Education.

4. Cost Analysis for PRIDE and other Reports, George A. Sterling, Staff Ohio Division of Vocational Education.

PROJECTS AND ACTIVITIES PLANNED:

1. 5-Year Follow-up Study Feasibility Project.

2. 9-10th Grade Career Exploration Scheduling Project.

3. Home Economics (Part F) Follow-Up Study.

4. Career Development Student Materials.

OKLAHOMA

Francis T. Tuttle, State Director for Vocational Education
William D. Frazier, RCU Director

PROJECTS COMPLETED:

1. Mini-State Plan, Oklahoma State Department of Vocational and Technical Education.

2. A Career Development Program in Agricultural Occupations for Advantaged and Less-Advantaged Rural Youth, Floyd J. Lark, Billie L. Henderson, James P. Key and Robert R. Price.

3. The Influence of Skill Training on the Time Invested in Vocational Guidance by Counselors, William G. Ward.

4. Planning Elements for Practical Nurse Training: The Oklahoma City Vocational School of Practical Nursing, William Gary Ward.

5. A Study of the Feasibility of a Health Occupations Career Mobility Program for Oklahoma: A Mini-Report, Sharon K. Ward, Patricia Jamison, and Don Frazier.

6. Health Occupations Career Mobility Programs in Oklahoma: Sharon K. Ward, Patricia Jamison, and Don Frazier.

7. A Study of the Feasiblity of a Health Occupations Program for Oklahoma: A Final Report, Sharon K. Ward, Patricia Jamison and Don Frazier.

8. Oklahoma Health Manpower Needs, 1973-1974, Occupational Training Information System, Division of Research, Planning, and Evaluation, State Department of Vocational and Technical Education.

9. Research and Development Project in Career Education: Sand Springs, Oklahoma Final Report, William D. Frazier.

NEW PROJECTS FUNDED:

1. A Study of the Needs of Oklahoma Citizens for Information About Vocational-Technical Education.

2. A Parallel Follow-up Study to Establish Validity of the Follow-up Component of Oklahoma's Student Accounting System.

3. A Study to Indentify Success Factors of Skill Training at Ouachita and Lexington Inmate Training Centers.

4. Dropout Restoration Project, (funded from disadvantaged monies)

Oklahoma

RESEARCH RELATED ACTIVITIES:

1. Conducted EPDA Project--New Teacher Workshop.

2. Conducted Initiation to Management by Objectives project pre-visits to the following states: West Virginia, New Jersey, Connecticut, Kansas, Illinois, Missouri, North Dakota, Oregon, Colorado, Kentucky, Hawaii, Florida, Ohio, Tennessee, and Minnesota.

3. Hosted Advisory Committee review of the project, "The Development and Testing of a Linear Programming Technique for Optimizing Occupational Training Program combinations."

4. Conducted MBO workshops at various in-state locations including Indian Capital Area Vocational-Technical School and Murray State College.

5. Attended the following out-of-state meetings: Western Interstate Commission for Higher Education Advisory Meeting, National Conference of State Directors, NEW/NIE Conference, American Vocational Association Annual Convention, National Center for Higher Education and Management Systems Meeting, EPDA Regional Planning Conference, EPDA National Leadership for Change Conference.

6. Consulted on management and planning at: Idaho State Department of Vocational and Technical Education and Area Schols, West Virginia State Department, and the Western Interstate Commission for Higher Education.

7. Conducted workshop on Oklahoma Evaluation System for New Mexico State Department of Vocational Education.

8. Conducted team evaluations of vocational programs in 51 local schools.

9. Aided the Ohio State University Center for V-T Education in handicapped planning.

10. Conducted National Conference on Management Information systems.

11. Hosted delegations for the Ohio State University Center, Louisiana State Department, Florida State Department, and North Carolina Center in relation to OTIS and management information systems.

12. Hosted a visitor from West Germany in relation to Division operations.

13. Disseminated two VEIN newsletters, numerous ERIC "Alerts," and results of numerous ERIC searches.

Oklahoma

PROJECTS AND ACTIVITIES PLANNED:

1. Continuing Projects are: OTIS, Evaluation, MOB, in linear programming project, and the three new projects initiated the past period.

2. The following developments are planned: Revision of long-range objectives for the Oklahoma State Department, Recommendations of new programs in FY 1976, Individual school district profiles, Status report on vocational education in Oklahoma, Establish MBO in all Oklahoma area schools, Complete adult plan for vocational education, Develop proposal for reimbursement of business education programs, Develop system for annual mobility study of graduates, Fund a series of mini-grants, Develop proposal for a functional State Department organization structure.

OREGON

Leonard Kunzman, State Director for Vocational Education
Dave Fretwell, RUC Director

PROJECTS COMPLETED:

1. An Approach to Changing Teacher Attitudes and Updating Teacher Information About Career Education, Susan Brous, Grants Pass.

2. Consortium for Planning, Developing, and Implementing Exploratory Industrial Career Development Models, Larry Kenneke, Oregon State University.

3. A Creative Career Education Language Arts Program for the Disadvantaged, Jane Staver, Boise School.

4. Applied Research in Career Education, Richard Withycombe, John Adams High School.

5. Community Involvement with Disadvantaged Students, Paul McKillop, Klamath County School.

6. Implementation of Intergrated Foreign Language and Career Education Program Goals, Wolfgang Dill, Clackamas Community College.

7. Elementary-Career Awareness, Jan Sjolander, Eugene School District.

8. An Integration of Career and Consumer Education and Reading and Language Arts Program Level Goals, Ralph Hodges, Portland Public School, Area III

9. Improving Instruction in Innovative Areas Through Improved Administrative Procedures, John W. Kreitz, Lane community College.

10. Local Production of Relevant Awareness-Exploratory Media, William K. Ousterhout, Central School District.

11. Exemplary and Innovative Career Exploratory Program in Sherwood Intermediate School and Sherwood High School, Earl Knight, Sherwood School District. 88J.

12. Refinement, Implementation and Dissemination of a Career Exploratory Program for Vale Middle School, Dr. Edwin W. Morgan, Vale Elementary School.

13. Health Careers Exploration, Margaret Smith, Roosevelt High School.

14. The Oregon Vo-Tech Math Project, Dell Swearingen, Linn-Benton Community College.

Oregon

15. Utilizing Community Resources, Alan C. Goetz, Multnamah County IED.

NEW PROJECTS FUNDED:

1. Beaverton Schools, and Exemplary Project:

   Development of a Career Awareness resource center model and in the process develop guidelines by which other centers may be initiated and implemented at other school districts. Develop an instrument as a system to be used to evaluate career awareness resource materials. The materials evaluated will be materials indentified by the publisher or producer as distinctly applicable to career awareness instruction.

2. Linn-Benton Community College, and Exemplary Project:

   The Vo-Tech Math Project is designed to provide the math skills necessary for an individual to get a job and perform that job adequately and provide an individual with the math skills necessary for advancement. This program will be offered at the post-secondary and secondary levels.

3. Linn-Benton IED, and Applied Research Project:

   To provide Albany area elementary teachers with ten sessions of career awareness materials development. A cadre trained awareness person will be made available as a consultant for all sessions. Teachers will receive demonstrations of activities and be given assistance in developing materials to take back to their schools. It is an essential step in bringing the 230 elementary teachers of this area to the point of implementing strong awareness programs into their classrooms.

RESEARCH RELATED ACTIVIES:

1. Professional Development Needs for 1974-75:

   Each year an attempt is made to identify the professional development needs of vocational personnel across the state and provide appropriate activities to meet identified needs.

   This year input is being obtained from vocational instructors and administrators through a questionnaire so that any activity that is organized will be directly related to their specific needs.

   The results from the returned questionnaire will be complied to help develop personal development priorities.

2. Statewide follow-up of 1973 High School Students:

The State Department of Education: Career Education Division, in cooperation with the Education Coordinating Council, is conducting a statewide follow-up of 1973 12th grade students. The State Department of Education: Career Education Division's student follow-up includes 25% of all students who are enrolled in approved Career Cluster programs in each of Oregon's school districts. In addition, Portland Public Schools, and school districts in the Coos Bay area and Douglas County will have a 100% follow-up of their students who are enrolled in approved Career Cluster programs.

100% student follow-up in other areas of the state is being planned on a rotating basis during the next three years.

In conjunction with the State Department Career Education Division's student follow-up, the Education Coordinating Council is sending identical student follow-up questionnaires to 10-25% of Oregon's 12th grade students who were not enrolled in approved Career Cluster programs.

This study is attempting to find out: (a) where and in what occupational fields former students are working (b) where and in what major departments former sutdents are attending school (c) what factors could be strangthened and improved in the existing educational system.

Two additional benefits coming out of this statewide follow-up of 1973 students are: (1) comprehensive information will be available on a statewide basis concerning what Oregon high school students are doing after they leave high school (2) local school districts will be able to request an analysis of their graduates in order to make a comparison with the statewide follow-up analysis.

3. Summary of Occupational Employment Trends in Health Occupations:

In line with ongoing activities in manpower analysis in major occupational areas, the study of health occupations was completed in September. The primary purpose of the data collection was to occupationally define the health field and provide an initial summary of employment trends for purposes of program planning and development at the post-secondary level. The data will also have ramifications for program planning at other levels of career education including the awareness (K-6), and exploratory (7-10), and preparation (11-12) levels. Because of the rapidly changing nature of manpower demand and supply data, this summary is not intended to be a continuing source of data for program planning in the health field.

Oregon

Detailed manpower demand data, both state and local, as well as manpower supply data relating to the occupations identified in this summary are contained in the Career Program Planning System (CPPS). Data in this system are updated as they become available, and summaries can be generated in various formats depending upon the users' needs.

PROJECTS AND ACTIVITIES PLANNED:

Not indicated.

PENNSYLVANIA

John W. Struck, State Director for Vocational Education
Carroll A. Curtis, RCU Director

PROJECTS COMPLETED:

Not Indicated

NEW PROJECTS FUNDED:

1. Tasks Prerequisite for Entry in the Home Furnishings Cluster of Distribution in Philadelphia County with Implications for the Secondary School Curriculua, Dr. William F. Sassaman, Temple University.

2. Selected Distributive Education Teacher Characteristics as They Relate to the Retention of Graduates in the Field of Distribution. Dr. William F. Sassaman, Temple University.

3. The Determiniation of competencies in the Hotel-Motel Industry With Implications for Curriculum Development for Postsecondary Distributive Education Cooperative Students in Philadelphia, Pennsylvania. Dr. William F. Sassaman, Temple University.

4. Changing the Image of the Salesman, Dr. WIlliam F. Sassaman, Temple University.

5. CSIU Career Education Institute, Dr. Carl W. Pepperman Central Susquehanna Intermediate Unit.

6. A Follow-Up Study of Graduates and Employers Relating to the Business Administration Curricula of the Williamsport Area Community College, Mr. Donald B. Bergerstock, The Williamsport Area Community College.

7. Parameters of the Future Food Service Industry World of Work, Dr. Thomas F. Powers, The Pennsylvania State University.

8. Cluster Curriculum Development, Mr. Robert A Nagle, Lehigh County AVTS.

9. Analysis of Female Faculty of the State-Owned Colleges and University, Ms. Patricia L. Patterson, University of Pittsburgh.

10. Exemplary Career Resource Center for Grades 6-9, Mr. Charles U. Findley, Greater Latrobe School District.

11. Exemplary Career Resource Center for Grades 7-9, Dr. Robert M. Bookbinder, East Stroudsburg Area School District.

Pennsylvania

12. Exemplary Career Resource Center for Grades 7 and 8 in Pennsylvania, Dr. Jerome M. Malkan, East Penn School District.

13. Exemplary Career Resource Center for Grades 6 through 9 in Pennsylvania, Mr. John Chido, Jr., Farrell Area School District.

14. Exemplary Career Resource Center for Grades 7 through 9 in Pennsylvania, Mr. John H. Sloan, Connellsville Area School District.

15. Exemplary Career Resource Center, Ms. Jean B. McClenathan, School District of the City of Erie.

16. Exemplary Career Resource Center for Grades 6-8, Mr. James A. Hoch, Tuscarora School District.

17. Career Resource Center, Mr. Robert C Prettman, Towanda Area School District.

18. Career Resource Center 9-12, Dr. John J. Zimmerman, Montoursville Area School District.

19. Career Resource Center - Grades 5-8, Mr. Kent Kresge, Tunkhannock Area School District.

20. Exemplary Career Resource Center, Dr. Laurence F. Greene, School District of Cheltenham Township.

21. Exemplary Career Resource Center, Mr. J. Wesley James, Carlisle Area School District.

RESEARCH RELATED ACTIVITIES:

1. Career Resource Center Implementation and Evaluation:

The evaluative information from the five model career resource centers in Pennsylvania was analyzed and the report written. The report and other pertinent information provided the input for a companion publication entitled, "Guidelines for Establishing Career Resource Centers." Both publications are now being distributed in Pennsylvania and elsewhere.

2. Manpower Research Activities:

a. Members of the RCU staff continued to refine and update the manpower supply/demand model. The model utilizes labor market

supply and demand information to provide local level planners an opportunity to assess the relationship of present vocational education programs to labor market needs. Future programs can be developed to reduce manpower supply/demand discrepancies. The model will generate manpower information categorized by occupations, labor market areas, training agencies and programs.

b. Periodic publications on various aspects of the supply/demand model are continually being generated. During the present reporting period, the following publications were completed and disseminated:

(1) "Selected Demographic and Economic Data for the Commonwealth and Selected Counties"

(2) "Selected Anual Occupational Withdrawal Rates for Pennsylvania: 1950-1970"

(3) "Selected Demographic and Enrollment Data and Projections for Pennsylvania"

(4) "Manpower and training data for Pennsylvania Counties"

(5) "Post-High School Activities for the 1972 Graduates"

3. PENNscrpits:

Final plans are being developed, in cooperation with the Division of Pupil Personnel Services of the Bureau of Instructional Support Services, relative to evaluation of PENNscripts. The evaluation will be conducted during the spring of 1974.

PENNscripts is a Pennsylvania adaptation of the VIEW concept. The RCU assisted in the development of over 200 information scripts for the project. The unique feature of PENNscripts is the final page of each script. The last page contains specific information (salary, current job market, future trends) for the various Bureau of Employment Security offices in Pennsylvania. The localized information is completed for all labor market areas in Pennsylvania.

The decks are free to schools with access to a microfiche reader or reader-printer. To date, PENNscripts is available to over 450 junior and senior high schools, all community colleges and branch campuses and all area vocational-technical schools in Pennsylvania.

In addition, PENNdecks can be found in the state colleges and universities, state and regional libraries, Bureau of Employment Security offices, intermediate units and counselor education departments.

PROJECTS AND ACTIVITIES PLANNED:

1. Finalize and conduct the evaluation of PENNscripts.

2. Complete and forward to USOE the first Annual report of the Discretionary - Part C Career Education Projects.

3. Assist local educational agencies to implement approved research (Part C) and exemplary (Part D) projects funded directly from USOE.

4. Assist local educational agencies to implement a model occupational placement service.

5. Assist regional USOE team to evaluate Pennsylvania's discretionary (Part D) projects.

6. Continue manpower activities.

RHODE ISLAND

Peter Bowen, State Director of Vocational Education

Jacqueline Nelson-Harrington, RCU Director

NO REPORTS RECEIVED

SOUTH CAROLINA

L. L. Lewis, State Director for Vocational Education
Gregory Morrison, RCU Director

PROJECTS COMPLETED:

1. Development of a State-wide Curriculum in Graphic Communications Based on Behavioral Objectives and Self-Instructional Programs.

2. Phase I of the Career Cluster Analysis Planning Project. The purpose of this phase was to identify and select curriculum materials based on the job requirements and competencies of the industry in the area of Heating, Air-Conditioning, and Refrigeration, as well as the area of Machining.

NEW PROJECTS FUNDED:

1. Development of an "Orientation to Career Education" package, containing programmed materials for teacher/administrators, with a videotape presentation and an ideas booklet suggesting a variety of classroom activities.

2. Initiation of Phase II of the Career Cluster Analysis Planning Project to establish a model for the articulation of Vocational and Technical Education training programs, based on behavioral objectives. This phase will be concerned with the development and sequential organization of the behavioral objectives and the preparation of the Phase II project plan.

RESEARCH RELATED ACTIVITIES:

1. Completion of five slide/tape documentary programs entitled "Career Education," available for loan to those interested in career education. It is approximately 30 minutes long, and is based on the South Carolina Career Education Plan and the pilot project effort at Lexington School District #3 in Batesburg, South Carolina.

2. Distribution of the revised, updated and expended VIEW deck (to 208 occupations) and guidance manual, to 232 secondary and middle schools in the state.

3. Eight workshops were conducted at various locations throughout the state for guidance counselors, school administrators, and superintendents directly associated with or interested in Project VIEW, with emphasis on project potential and methods of implementation.

4. The Adult Vocational Education Project in the Appalachian Region was refunded for FY 75 to continue and expand adult vocational programs in eleven area vocational facilities.

5. The Student Placement Project in the Applachian Region was refunded for FY 75 in eleven area vocational centers, to meet changing requirements of business and industry, to assure student of a job upon graduation and to promote the involvement and support of busines and industry by supplying them with well trained students.

6. Continued funding was approved for the Appalachian project entitled "An Institute on Career Development for School Counselors," which was designed to give guidance counselors at the junior high, middle and senior high schools first hand experiences in the "world of work" in order to better serve the students in the decision making process.

7. Pretests were administered for the required third party evaluation of the two pilot Career Education programs, Lexington School District #3 and Spartanburg School District #5.

8. A Survey to determine the willingness of non-participating secondary and junior high schools to initiate a VIEW program has been conducted. As a result of the response, plans are being made to expand the number of participants to more than 400 South Carolina schools.

PROJECTS AND ACTIVITIES PLANNED:

1. Reproduction of the self-instructional Graphic Communications curriculum materials for distribution.

2. Development and field testing of the Career Education Orientation Package for teacher/adminstrators.

3. A series of inservice workshops for teachers/administrators, as an orientation to Career Education, utilizing the Orientation Package, to be completed during the first quarter of the year.

4. Develop and pilot test an instrument to evaluate the VIEW program delivery system in the participating schools.

5. Prepare and submit a proposal for Phase III of the Career Cluster Analysis Planning Project being conducted in the Appalachian Region. This phase will concentrate on the development and compliation of self-instructional materials that will compliment the behavioral objectives developed in Phase II.

6. Preparation of a proposal to expand Project VIEW into the remaining non-participating area vocational centers, high schools and junior high schools.

TENNESSEE

W. M. Harrison, State Director for Vocational Education
Garry Bice, RCU Director

PROJECTS COMPLETED:

1. "A Survey to Determine the Need for Occupational Classes in Home Economics Careers in Sumner County" - Sumner County High School (Mini-Grant).

2. "A Follow-up Study of Graduates of the Child Career and Guidance Program at Nashville Area Vocational-Techincal School" - Nashville State Area Vocational-Technical School (Mini-Grant).

3. "A Survey of Potential Employers and Students to Assess the Feasibility of Establishing a General Cooperative Vocational Education Program in Clay County" - Clay County Board of Education (Mini-Grant).

NEW PROJECTS FUNDED:

1. "A Study of Student Satisfaction with Vocational-Technical Education Programs in Tennessee", Contract with the Tennessee State Advisory Council on Vocational Education.

2. "The Impact of the Vocational Education Amendments of 1968 on Vocational Education in Tennessee" - Contract with the Tennessee State Advisory Council on Vocational Education.

3. "Relationship Between Vocational Office Education (VOE) Training in Sumner County and Employment Obtained After High School Graduation" - Sumner County Schools (Mini-Grant)

4. "Testing a Spaced Pattern of Repetition of Gregg Diamond Jubilee Shorthand Brief Forms and Principles at Community College Level" - Department of Vocational-Technical Education, University of Tennessee, Knoxville (Mini-Grant).

5. "Common Affective Domain Competencies of Students Among Vocational Areas" - Department of Vocational-Technical Education, University of Tennessee, Knoxville, (Mini-Grant).

6. Survey of Public and Private Postsecondary Schools - National Center for Education Statistics.

Tennessee

RESEARCH RELATED ACTIVITIES:

1. The Tennessee RCU hosted the Southwide Research Coordinating Council in Nashville, October 16-18, 1973.

2. The RCU had a booth displaying all major program areas at the East Tennessee Education Association meeting held in Knoxville, October 25-26, 1973.

3. The Middle and West Tennessee Regional Research and Development Coordinators assisted several counties in the development of a comprehensive vocational education plan.

4. Four hundred sixty-three persons (other than RCU staff) visited the RCU Library.

5. Three thousand and eighty-five microfiche titles were reproduced and disseminated.

6. One hundred and seven new computer searches and sixty-one manual searches were completed and added to the RCU Library.

7. The RCU Circulator was disseminated to 4,848 persons in September and 5,181 persons in November.

8. Career Education Information Abstracts were disseminated to 4,818 persons in October.

9. SDI sheets were mailed to 374 secondary schools and 50 junior high schools (2,131 vocational teachers and counselors).

10. One hundred two SDI requests and 17 Circulator requests were filled.

11. The RCU had an exhibit on the RCU Information Dissemination System at the Education Commission of the States meeting at Minneapolis, Minnesota.

12. PUBLICATIONS COMPLETED:

Publication	Number Disseminated July-December 1973
Cumulative Index to "Query" Computer Searches	150
Cost Analysis of Secondary School Vocational Technical Education Programs	54

Tennessee

Publication	Number Disseminated July-December 1973
Preparing Research and Development Proposals for Vocational-Technical Education	5
Preparing Research and Development Project Reports for Vocational-Technical Education	5
Final Report Tennessee RCU 1972-73	157
A Guide for Completing the Vocational-Technical Student and Personnel Information Forms for School Year 1973-74	2,500
INFOE Brochure	1,000
Counselors Guide to Secondary INFOE	550
Student Guide to Secondary INFOE	550
Mini-Grant Project Reports:	
A Report of the Development and Evaluation of an Occupational and Volunteer Service Placement Officer	110
A Survey of Potential Employers and Students to Assess the Feasibility of Establishing a General Cooperative Vocational Education Program In Clay County, Tennessee	110
A Community Educates Itself on the Training Facilities Available in Tennessee to High School Graduates	115

13 OTHER PUBLICATIONS DISSEMINATED:

Publication	Number Disseminated July-December 1973
ERIC Brochure "Have a Research Paper?" Let ERIC Help"	120
Annotated Bibliography on Career Education For Administrators	185

Tennessee

Publication	Number Disseminated July-December 1973
Annotated Bibliography on Career Education for Postsecondary Educators	100
Annotated Bibliography on Career Education for Secondary Educators	496
RCU Brochure "Tennessee Information Dissemination System"	230
ERIC and RCU	43
General RCU Information Brochure	19
Career Education and the School Counselor in Tennessee	6
Career Education Brochure "A Look At Career Education in Tennessee"	165
Career Education Speeches by Marland and Others	64
Selected Data on _____ County (Data Paks)	519
Directory of Public and Private Postsecondary Schools with Vocational Education Programs in Tennessee	8
Final Report Tennessee RCU 1970-71	10
Final Report Tennessee RCU 1971-72	13
Final Report Tennessee Information Retrieval and Dissemination System for Vocational Education	5

14. Product Utilization Development:

An abundance of information is available from the TRCU that has assisted vocational education personnel in the State of Tennessee to maintain and expand their programs. However, the increase in the number of projects at TRCU and consistent increase in requests for information indicates that a larger number of people need to be more knowledgeable about how the Research Coordinating Unit can serve them. Thus a plan is underway to develop informational packets concerning the major programmatic efforts of the TRCU. These major efforts are: (1) Information Retrieval and Dissemination System, (2) Management Information System, (3) Information Needed for Occupational Education, (4) Mini-Grant Program (5) Career Education Information and (6) Special Projects.

15. Management Information System:

M.I.S. activities, in the summer month of 1973, were concentrated primarily on preparation for the collection and processing of new enrollment data in the fall. The most significant new development was the implementation of an automated mailing system When school began, enrollment materials were sent to all schools who had reported vocational-technical programs last year and to 13 additional schools which had new programs beginning this year. By December 1, enrollment forms had been completed and returned by 104,054 students and 2,025 teachers representing secondary and adult programs and a small number of postsecondary programs. By December 31, enrollment reports had been received from every school in the system (396) except one, representing approximately 109,000 students and 2,200 teachers. Class summary forms had also been returned for adult classes which met for only a short duration representing an additional 3,000 students.

16. Occupational Information System Development:

The Research Coordinating Unit now has two components of its career information system available for distribution statewide. The grades 9-14 component, Secondary INFOE (Information Needed for Occupational Entry) consists of the following materials:

a. Career Deck - aperture cards containing information on 450 specific job titles.

b. Program Offering Deck - aperture cards providing information on 96 vocational and technology programs offered in Tennessee.

c. Post-Secondary Institution Deck - aparture cards discribing post-secondary institutions available in Tennessee.

The complete set of Secondary INFOE materials which includes counselor and student instructions on the use of the 3 decks can be obtained for an intital fee of $50.00. The Career Deck will be updated annually for a fee of $25.00.

The grades 4-6 component, Elementary INFOE (Information Needed for Occupation Exploration) has been field tested in five states and will be ready for dissemination in March, 1974. The Elementary INFOE materials include overhead transparencies, aperture cards and teacher guides on the use of the materials for students in grades 4, 5, and 6.

Tennessee

The materials are designed to orient students to 15 major occupational clusters and to selected specific job titles. The cost of a set of elementary materials will be $35.00.

A third INFOE component, Primary INFOE (Information Needed for Occupational Enlightenment), will be field tested in selected schools in Tennessee this spring. The Primary INFOE materials consist of sets of color slides and audio tapes designed to oreing K-3 students to some of the basic concepts of career development. These materials will be available for us throughout Tennessee during the 1974-75 school year.

PROJECTS AND ACTIVITIES PLANNED:

Incorporated in "Research Related Activities" Section.

TEXAS

John R. Guemple, State Director for Vocational Education
Ray Barber, RCU Director

PROJECTS COMPLETED:

1. Development of Programs for Austin Community College, Austin Community College, Austin, Texas.

2. Comprehensive Manpower Study, El Paso Community College, El Paso, Texas.

3. Search for Effectiveness of Occupational Orientation Programs in the State of Texas, EPD Consortium D Richardson, Texas.

4. The Development of a Model for Establishing a New Health Career Education Program in the Community College, Houston Community College, Houston, Texas.

5. Regional Development and Coordination of Allied Health Manpower Education in the Community College, University of Houston, Houston Texas.

6. Evaluation of Post Secondary Vocational Training in Texas Department of Corrections, Lee College, Baytown, Texas.

7. Student Perception of the Effectiveness of Area Vocational Secondary School Programs of Texas in Meeting Student Interests and Perceived Needs, Texas A&M University, College Station, Texas.

8. Perceptions of Vocational Administrators and High School Principals Regarding the Role of the Vocational Administrator, Texas A&M University, College Station, Texas.

9. High School Career Interest and Information Survey, Phase II, Texas State Technical Institute, Waco, Texas.

10. Observed and Self Reported Individualization of Instruction by Vocational and Non-Vocational Teachers, University of Texas, Austin, Texas.

11. A Study to Identify Data Elements for Comparative Assessment of Effectiveness and Efficiency of Technical and Vocational Education Programs in the Public Community Colleges of Texas, University of Texas, Austin Texas.

3. Members of the staff continued to participate in the coordination of career education projects funded by the USOE under Section 131(a) Part C Public Law 90-576. (Details concerning these projects have been provided in separate reports.)

4. Members of the staff continued to participate in the activities of a special inter-agency task force to develop and implement a comprehensive manpower supply/demand data system for the State of Texas.

5. Members of the staff participated in the development, organization, coordination, review, publication, and dissemination of the Annual Vocational Education Report for Fiscal Year 1973.

6. The staff participated in a wide variety of activities related to research and development in occupational education and other components of career education.

PROJECTS AND ACTIVITIES PLANNED:

1. Nineteen previously described projects will be continued during the next six month period. One new project has been approved for initiation during the six month period. Approval of approximately five new projects is anticipated.

2. Emphasis will continue to be placed on curriculum development projects, manpower needs and development studies, evaluation projects, and follow-up and placement studies. Continued emphasis will be placed on the role of occupational education as an integral part of the total career education process.

3. Continued emphasis will be placed on the initiation of exemplary projects focused on career awareness, investigation, and exploration.

4. Development and initiation of pilot-demonstration projects in occupational education for the handicapped will be continued.

5. The State Plan for Vocational Education for Fiscal Year 1975 will be completed during the six month period.

6. The division's library facilities will continue to be improved. Continued progress will be made in the development of improved dissemination procedures.

7. The staff will continue to participate in a wide variety of activities related to research and development in occupational education and other components of career education.

UTAH

Walter Ulrich, State Director for Vocational Education
N. Craig Kennington, RCU Director

PROJECTS COMPLETED:

1. Parent-Child-School Career Education Programs for Tenth Grade Students at Logan High School, Lary Peterson, Logan School District.

2. Study of Feasibility of Vocational Training in Music, Fine Art, Drama,

3. Office Machines Used in Student Training Programs in Post Secondary Schools as Compared with Business Usage, Doris Williamson.

4. Extent of General Public and Educators' Knowledge of the State Board of Education

NEW PROJECTS FUNDED:

1. Vocational Education Need & Feasibility Studies Relating to Northern Utah, Sterling Rigby, Educators Alliance. Inc.

2. Study of Vocational Education Advisory Committees.

3. Sevier Valley Job Market Study, Dewain Washburn, Sevier Valley Tech.

4. Application of Career Counseling Technique Involving Parents in the Career Guidance Program for 10th Grade Students @ Logan Sr. High School, Larry Peterson, Logan School District.

5. Unitah Basin Job Market Survey, Marlin Johnson, Unitah Basin Vocational Center.

6. Workshop for Planning Career Education Program, Sevier School District Cooperative Service Agency.

RESEARCH RELATED ACTIVITIES:

1. Administration of Technical Assistance to State Funded "Career Development (Dropout Prevention) Program".

2. Study of State Agency Secretarial Staff Tasks.

3. National conference of Advisory Council - Title III.

Utah

4. State Advisory Council Chairmen Conference.

5. S.E.A. Career Education Task Force.

6. Steering Committee - Davis School District, Part D Project.

7. S.E.A. liaison - Alpine Part C project.

PROJECTS AND ACTIVITIES PLANNED:

1. Study of Coal Mining Occupations and Training Needs, Carbon-Emery Counties Area.

2. Impact on Community of School Closures.

3. Evaluation of 1974 Vocational Education Workshop.

4. Assessment of Home Economics Consumer Education Program.

5. Evaluation of Vocational Teacher Education Programs.

6. Evaluation of Services Offered to and Needed by Local Educational Agencies from the State Educational Agency.

7. Study of Barriers to Youth Exploration, Experience at Work.

8. Study of Need for Bookkeeping Training Programs in Secondary Schools.

9. Study of Vocational Program Characteristics Related to Program Success.

VERMONT

Arthur W. Ericson, State Director for Vocational Education
Joseph P. Kisko, RCU Director

PROJECTS COMPLETED:

1. A survey of the Attitudes of Businessmen and Teachers as to the need for Data Processing Instruction in the High Schools in the State of Vermont.

2. Development for Curriculum for Diesel - Hydraulics Course of Instruction.

3. Dissemination of the Bermont Career Education Project - V26-1044-1.

NEW PROJECTS FUNDED:

1. Investigation of Training Aids and Equipment for the Transfer to the Metric System, Robert Savage, Lamoille Union High School, District No. 18.

2. Twin State Educational Information System (New Hampshire and Vermont) Robert Trombley, New England Resource Center for Occupational Education. Cambridge, Mass.

3. Identifying a Non-verbal Aptitude for use in counseling secondary level mentally retarded pupils, William Halloran, Orange Southwest Supervisory District.

RESEARCH RELATED ACTIVITIES:

1. Requesting proposals - Determining priority projects.

PROJECTS AND ACTIVITIES PLANNED:

1. Requesting proposals - Research committee read proposals and make recommendations for approval, change or disapproval.

VIRGINIA

George S. Orr, Jr. State Director for Vocational Education
Lloyd M. Jewell, Jr. RCU Director

PROJECTS COMPLETED: NONE

NEW PROJECTS FUNDED:

1. Developing Performance Objectives and Criterion-Referenced Measures in Vocational Education, Dr. J. Dale Oliver, VPI & SU.

2. An Evaluation System for Vocational Education In Virginia, Dr. J. Dale Oliver, VPI & SU.

RESEARCH RELATED ACTIVITIES:

1. Meeting in Atlanta of V-TECS on Project, "Developing Performance Objectives and Criterion-Referenced Measures in Vocational Education."

2. National Advisory Committee for Research Project. "An Evaluational System for Vocational Education in Virginia" met at VPI & SU, December 14-51, 1973.

3. Continued two career education projects at Radford and Petersburg.

4. Initiated research related projects in Student Job Placement, "Central Machines Laboratory and Student Built House" projects.

PROJECTS AND ACTIVITIES PLANNED:

1. Planning research projects to be funded beginning July 1, 1974.

WASHINGTON

Arthur A. Binnie, State Director for Vocational Education
George P. Pilant, RCU Director

PROJECTS COMPLETED:

1. Project EVA Dissemination Packet.

NEW PROJECTS FUNDED:

1. The Study of a Career Ed. Component in a Teacher Ed. Program, William McPherson, Western Washington College.

2. CCOE Participation in the Pacific Northwest Educational Research and Evaluation Conference, Dr. Cecil Clark, Wash. Ed. Research, Assoc.

3. Walla Walla Area Vocational Needs Assessment, Philipp Scott, Walla Walla District.

4. Correlated Vocational and Basic Communication Skill Instruction Programming, Lee Walmsley, Selah School District.

5. An Appraisal of an Occupational Awareness Program. Morris Tonda, Renton School District.

6. A Cost Benefit Analysis of Vocational Education in an Area Vocational-Technical Institute, Roy L. Schmidt, Renton School District.

7. Project EVA Dissemination Packet, William W. Cox, Highline School Dist.

8. Development of Strategies for Incorporating Career Education in Teacher Training Programs, Glen O. Fuglsby, Eastern Washington College.

9. To Develop an Individualized Instructional Package on the Basics of the Metric System, Willard Crow Renton School District.

10. Educational Needs Assessment of Eastern Lewis County, Jerry W. Shiveley Tri-District Coop.

11. Vocational Enrollment Forecasting Project, Roger Bassett, State Board for Community College Education.

12. K-12 Career Awareness/Exploration Program, Bellevue Public Schools.

Washington

13. Continuation of Career Awareness Project, Cusick School District No. 59

14. Career Centered Education K-9, Marysville School District No. 25.

15. Interdisciplinary Career Education, K-12, Dale Shotwell North Kitsap School.

16. Career Exploration at Shaw Junior High, Spokane School District No. 81

RESEARCH RELATED ACTIVITIES:

1. Participated in national meetings including RCU personnel conference and NIE advisory group on "school to work" thrust.

2. Participated in many meetings of groups and agencies as host, member, or consultant.

3. Participated in many meetings of groups and agencies as host, member, or consultant.

PROJECTS AND ACTIVITIES PLANNED:

1. Monitor all research and exemplary projects.

2. Review Part C and D (Commissioner's) proposals.

3. Establish state advisory committee to the six-state Curriculum Materials Center.

4. Establish priorities for fiscal 1975 research and exemplary projects.

5. Issue calls for letters of intent and proposals for research and exemplary.

6. Initiate a study to strengthen dissemination through AIM and ARM material centers.

7. Meet with State Research advisory committees to evaluate proposals and recommend funding of projects.

8. Meet with State Exemplary advisory committees to evaluate proposals and recommend funding of projects.

9. Set up work shops for career education project directors to share common problems and successes.

WEST VIRGINIA

Clarence E. Burdette, State Director for Vocational Education
Glenn E. Smith, RCU Director

PROJECTS COMPLETED:

1. A Comprehensive Plan for the Development of Vocational Education in Cabell and Wayne Counties, West Virginia, Cabell County Board of Education, Huntington.

NEW PROJECTS FUNDED:

1. Research and Planning for the New Vocational-Technical Program and Facilities in Ohio County Schools, Roy E. Potter, Ohio County Board of Education, Wheeling.

2. Research and Development Project in Career Education (Supplemental Grant), Mary Louise Klaus, Raleigh County Board of Education, Beckley.

RESEARCH RELATED ACTIVITIES:

1. Monitoring of approved research projects.

2. Assisted with the continued development and operation of the Data System for Vocational Education (CES-VE) a management information system for vocational education.

3. Continued operation of an Educational Information Service Center providing user services in relation to ERIC (Educational Resources Information Center).

4. Completed a study of the relative availability of vocational education programs to secondary students in West Virginia.

5. Coordinated the development of a curriculum proposal for submission to the Commissioner of Education for funding.

6. Completed a survey to determine estimated projected costs of vocational summer school programs in West Virginia.

PROJECTS AND ACTIVITIES PLANNED:

1. Continue monitoring approved research project.

2. Continue assisting with the development and operation of the Comprehensive Data System (CDS-VE).

3. Continue operation of an Educational Information Service Center.

WISCONSIN

Eugene Lehrmann, State Director for Vocational Education
Roland J. Krogstad, RCU Director

PROJECTS COMPLETED:

Not Indicated.

NEW PROJECTS FUNDED:

PART C

1. Evaluation of Civil Structural Curriculum. A state-wide survey of graduates of Civil Structural Programs of the VTAE System and their employers to determine strengths and weaknesses of the curriculum.

2. Individualized Instruction for Rural Providers of Day Care Services. To evaluate the effectiveness of individualized instruction developed for Rural Providers of In-Home and/or Family Child Care Services.

3. Attitudes Toward Instruction. To compare student and staff evaluations of individualized and traditional instruction.

4. Evaluation of Architectural Curriculum. A state-wide survey of graduates of post-secondary VTAE architectural technology programs and their employers to determine strengths and weaknessess of the curriculum.

5. Physics Requirements for Engineering Technicians. To determine relevancy of Physics courses as perceived by employers and graduates of Gateway Technical Institute programs in Automotive Technology, Fluid Power, Mechanical Design, Mechanical Production, Electronic Technology, Computer Technology, Instrumentation Technology, and Civil Technology.

6. Career Education Project Office. To assess career education needs in all grade levels and to promote articulation of needed programs.

7. Computer Augmented Accounting. To continue with developing computer programs for managerial accounting, cost accounting and income tax accounting.

8. Program Evaluation Model. To evaluate course content in selected field and incorporate content that meets needs of students and employers. To develop a model.

9. Vocationally Coordinated Curriculum for General Education. To develop a coordinated general education curriculum with vocational and technical programs.

Wisconsin

10. Task Analysis for Optometric Assistant Program. To identify the tasks performed by the optometric offices located in Wisconsin.

11. Interaction of Learning Styles. To identify learning styles relevant to selected vocational programs and evaluate their interaction with learning experiences and modes of instruction.

12. Evaluation of Civil Highway Curriculum. A state-wide survey of graduates of post-secondary VTAE Civil Highway Technology Programs and their employers to determine strengths and weaknesses of the curriculum.

13. Multi-Research and Curriculum Project. To stimulate faculty research and development through awarding of mini-grants.

14. Feasibility of Health Related Occupations Curricula. To determine the feasibility of developing curricula in health realted occupations in the Nicolet College and Technical Institute VTAE District.

15. Multi-Research and Development Project. To stimulate faculty research and development through awarding of mini-grants.

16. Evaluation of Secretarial Science. To continue with evaluation of the two-year secretarial science curriculum through a follow-up of graduates and withdrawals.

17. Impact of Research and Exemplary Program. To assess the impact and evaluate the effectiveness of the Wisconsin research and exemplary programs administered under the Vocational Education Act of 1963 as amended for the period January 1, 1966 through June 30, 1973.

18. Conceptual Framework for Cost-Benefit Studies. To develop a conceptual framework and recommendations for conducting cost-benefit analysis studies in post-secondary VTAE in Wisconsin.

19. Descriptive Cost-Benefit Studies. To conduct eight descriptive cost-benefit studies in Wisconsin post-secondary VTAE.

20. Information Retrieval Demonstration Through Use of CRT Linhoges with Computers. To demonstrate the computer terminal system of information retrieval from a central computer.

21. Evaluative Study of Metals Curriculum. A state-wide evaluation to determine relevancy of curriculum components as perceived by employers and their former students.

PART D

1. Career Mobile Project. To provide occupational information and planning services to rural and urban youth in the VTAE district through use of mobile unit.

2. Career Consultant Project. To provide a liaision vocational guidance counselor to counsel with potential dropouts from a university and technical institute.

3. Decision II. To design, develop and provide occupational information to area school districts through an audio-tutorial system.

4. Small Store for Fashion Merchandising. To develop a model for small store operations that could be used in post-secondary fashion merchandising programs.

5. Computer Augmented Accounting. To improve and expand current programs for accounting students.

6. Career Resource bank. To develop a career resource bank through integration and articulation of several community agencies.

7. Career Telephone Service. To develop a pilot series of 55-60 career information tapes designed as a counseling-guidance-information to inform the public of VTAE programs and services available at GTI.

8. Career Education Center. To determine need, provide and disseminate career education materials to the public and other schools in the district.

9. Learning Resource Center. To assess student abilities and interest and evaluate open-ended remedial individualized Curricula incorporating a learning resource center.

10. Career Information for Area High Schools. To develop and purchase additional audio visual career education packages for use by area high schools and employment agencies.

11. Study of Vocational Assessment of Handicapped. A continuation project to demonstrate that a Division of Vocational Rehabilitation agency can continuously upgrade the quality of DVR counselors judgements and decisions affecting individual clients through use of a system of feedback.

12. Year-Round Open-Ended Program. To develop materials and procedures to manage an open-ended VTAE curriculum and placement program in selected area.

13. Individualized Instruction for Secretarial Science. To develop individualized audio-visual materials for American Indians and disadvantaged or handicapped in selected areas of secretarial science.

14. Self-Instruction for Fluid Power Course. To develop a series of basic fluid power multi-media self-instruction programs to enable review of lecture material on an individualized basis.

15. Office Simulation Program. To develop a simulated office for providing training in a realistic office environment for post-secondary students pursuing programs in account clerk and clerk typist.

16. Evaluation of OVIS. To complete a data base on the use of the Ohio Vocational Interest Survey (OVIS) as an indicator for occupational guidance and counseling needs and needs for VTAE programs based on student interest.

17. Individualized Job Placement Education Program. To develop individualized educational units on employability skills which can be utilized by students prior to job seeking.

PART B

1. In-service Instructional Staff Improvement Program. To upgrade the instructional process through teacher involvement in development of behavior objectives and use of audio-visual media.

2. Update Consumer Education. To update Homemaker Aides through use of feedback from on the job experiences.

3. Staff Exchange Program. A directed work experience program to upgrade faculty knowledge of the world of work through work and observation of workers on the job.

4. Educational Needs of VTAE Agriculture Instructors. To determine the professional and technical functions, tasks and competencies of Wisconsin's post-secondary full-time agriculture instructors.

5. In-Service Education. To conduct sessions on management of learning, identifying individual differences in learning patterns, new instructional resources for PT teachers; transactional analysis for PT teachers and MBO in education for administrators.

6. Environmental Education In-Service Training Program. To train a cadre of in-service trainers and develop plans for conducting VTAE district in-service sessions to implement guidelines for integrating environmental education concepts in post-secondary VTAE.

7. In-Service Education. To up-grade competencies in communication and achievement motivation.

8. Updating Staff Knowledge in Office and Distributive Education. To update staff knowledge in various curriculum areas in Office and Distributive Education through a series of one and two-day seminars.

9. Professional Growth Activities. To upgrade competencies of teachers to manage individualized instruction, multi-media articulation and humanizing instruction.

10. In-Service for Agriculture Instructors. To upgrade computerized financial management competencies in 80 production agriculture and Farm Training Program instructors through a series of four regional workshops.

11. Upgrading Competencies in Use of Multi-Media. To conduct a two-day workshop on theory and use of multi-media in individualized instruction.

12. Leadership Development Conference for T & I Supervisors. To upgrade competencies in Conference Leading techniques.

13. Business Data Processing Instructors Workshop. To upgrade competencies in use of computer terminals in instruction.

14. Professional Growth Week II. To upgrade competencies in individualizing instruction through participation in an individualized learning experience format.

15. University of Wisconsin - Madison:

    a. Center for Studies in Vocational and Technical Education.

b. Information Retrieval Demonstration and Research Project.

c. A Longitudinal Evaluation of Manpower Development and Training Act Institutional Training Programs in Wisconsin from 1962 to 1973.

16. University of Wisconsin - Stout:

a. An Assessment of the Status of Career Education in Wisconsin.

b. The Feasibility of Using Work Evaluation as a Tool for Assessment in Adult Basic Education (John T. Anderson)

c. Convergence Research Project II (Nelson)

d. Professional Growth Week for VTAE Teachers - Phase II (Harold Halfin, Duane Johnson, Orville Nelson)

e. Evaluation of the Implementation of a Program and Delivery System for a Comprehensive Career Education in a Rural Area (Orville Nelson)

f. Evaluation of Vocational, Technical, and Adult Education in Wisconsin: Delphi Conference (Planning for the Future) (Mehar Arora)

g. Convergence Research Project: Phase III (Orville Nelson)

h. The Impact of the Narrator's Voice Qualities on the Acquisition of Technical Knowledge in a Media Presentation (Patrick Gerkey)

i. Developing a Model of Adult Education and Assessing the Implications of CAI as a Delivery System (Abigail and Lorraine Vander Kamp)

j. Area C Follow-Up Survey (Orville Nelson)

k. Improve Instructional Capabilities of Part-Time Vocational Education Call Staff (Lorayne Baldus)

l. Exchange Program (John Jarvis)

m. Evaluation of Vocational Education Certification courses (Harold Halfin)

n. Center for Vocational, Technical and Adult Education Sub-Project to the Barron County Project (Harold Halfin and Orville Nelson)

o. Consumer Education Workshop (Karen Zimmerman)

p. Tasks of VATE Curriculum Coordinators (Clifford Zenor)

q. Assessment of the Professional Teaching Competencies needed by Call-Staff Teachers in the Wisconsin VTAE System (Bryan K. Niccum)

r. Analysis and Simulation of Curriculum Development Procedures A Seminar for Curriculum Specialists (Geoff Saville)

s. An Evaluation of Three Pilot Courses: The Development of Early Childhood Education of the Mentally Handicapped Child (Keil and Schmalzreid)

t. Method of Establishing Priorities Among Vocational, Technical or Adult Education Programs in the Post-Secondary Vocational Education System (Mehar Arora)

u. An Appraisal of Group Project Effectiveness in Vocational Subjects (Keith Myers)

v. Using Occupational Cluster Analyses to Articulate Secondary Occupational Education with Post-Secondary Occupational Education and the World of Work (Harold Halfin)

RESEARCH RELATED ACTIVITIES:

A number of small grants and research related projects were awarded to the following institutions:

1. Mid-State Vocational, Technical and Adult District, Wisconsin Rapids.

2. Milwaukee Area Technical College.

3. Gateway Technical Institute, Kenosha

4. Lakeshore Technical Institute, Sheboygan

5. Moraine Park Technical Institute, Fond du Lac

6. Nicolet College and Technical Institute, Rhinelander

7. Northeast Wisconsin Vocational, Technial and Adult District.

8. Waukesha County Technical Institute

Wisconsin

9. Western Wisconsin Technical Institute.

10. Wisconsin Indianhead VTAE District, Shell Lake.

11. Fox Valley Technical Institute.

PROJECTS AND ACTIVITIES PLANNED:

Not indicated.

WYOMING

Fred Black, State Director for Vocational Education
Fred Black, RCU Director

PROJECTS COMPLETED:

1. Audio-Visual for Welding Technology
2. Summer Training Model for High School Counselors
3. Development of a Career Education Program for Glenrock Schools

NEW PROJECTS FUNDED:

1. The development of a career education program, School District #1, Glenrock Wyo.
2. Summer training model for H.S. Counselor, School District # 25, Riverton, Wyo.
3. Summer training model for H.S. Counselor, School District #1, Casper Wyo.
4. Safety manual for occupational teachers
5. Development of model career Exploration Curriculum, Dept. of Vo. Ed., University of Wyo.
6. Development of an Agriculture Curriculum & Media Cent., Dept. of Voc. Ed., University of Wyo.
7. Occupational Student Follow-up, Lander High School
8. Occupational Facilities Study, Pine Bluffs High School
9. Occupational Facilities Study, Basin High School

RESEARCH RELATED ACTIVITIES:

1. FY '74 State Plan
2. FY '73 Annual Reports
3. Conducted in-service program on proposal writing
4. Design Region VIII State-Staff In-Service Program

Wyoming

5. Assisted in 14 summer in-service workshops
6. Conducted Annual follow-up activities
7. FY '74 programs review

PROJECTS AND ACTIVITIES PLANNED

Not indicated

PUERTO RICO

Jose Lema Moya, State Director for Vocational Education
Vidal Velez, RCU Director

PROJECTS COMPLETED:

1. Manpower Occupational Demand Anaysis- In-house project

2. Preparation of a Document of Reformulating Policy and strategy for the VTE Program of the Commonwealth Department of Education

NEW PROJECTS FUNDED:

1. Development of a Comprehensive Model for Career Education in Puerto Rico, Mrs. Ines Julia Guzman de Perez, Assistant Secretary Regular Academic Program, Department of Education

2. Follow-Up Study of Graduates of Vocational and Technical Education Program, 1972-73, Mrs. Sonia Feliciano de Urbistondo, (In-house project)

3. Establishment of a Management Control System for the Vocational and Technical Education Program, Dr. Vidal Velez Serra, Director of the Research Planning, Evaluating, Statistics and Report Unit (In-house project)

4. Manpower Occupational Demand Analysis in Puerto Rico, (In-house Project)

5. Preparation of a Document of Reformulating Policy and Strategy for the VTE Program of the Department of Education, Contracted with the Puerto Rico Management and Economic Consultants

6. Effectiveness of the Business Education Program in Preparing Students for Job Opportunities in the Caguas Region, Dr. Rafael Arbelo, Director Business Education Program

7. Career Education Program at Palmarejo Rural Second Unit in Lajas School District to Acquaint Elementary and Junior High School Students with Career Possibilities

8. The Training of Disadvantaged and Unemployed Youngsters on Methods and Techniques of Modern Agriculture for the Production, Collection, Classification, Packing and Cooperative Marketing of Vegetables and Minor Crops

9. A Model State Pedagogical Resource Center for Designing, Producing, Testing, Revising and Disseminating Teaching, Audiovisual and Other Educational Materials for Students of Regular, Special and Post-Secondary Programs for Vocational and Technical Education in Puerto Rico

RESEARCH RELATED ACTIVITIES:

1. The tables developed by the Baseline Project for the Second National Report, Baseline Year: 1971-72 were revised.

2. An Occupational Demand Analysis was prepared to be used in developing policies and strategies for vocational education program development in Puerto Rico.

3. The Proposal for the Creation of a Component for Translation and Adaptation of Vocational and Technical Education Curriculum Materials in Puerto Rico was revised. This project is being funded under the Emergency School Aid Act - PL 92-318 that was approved under a special grant.

4. The Semiannual Report to the USOE covering the period of January to June 1973 was prepared.

5. Development of the following proposals:

   a. Proposal for the Establishment of a Residential School for the Training of Youth in the Administration and Management of Agriculture.

   b. Proposal for the Establishment of a Management Control System for the Vocational and Technical Education Program of Puerto Rico.

   c. Proposal for the Establishment of a Management Information System at the Puerto Rico Research, Planning, Evaluation, Statistics, and Report Coordinating Unit.

   d. Proposal for the Development of an Exemplary Career Education Comprehensive Program in the Academic and the Vocational and Technical Education Program in Puerto Rico.

   e. Proposal for an Evaluation Project for the Business Education and Distribution of Marketing Programs.

   f. Proposal for the identification of Handicapped and Disadvantaged Youths in the Miguel Such Area Vocational School, Grades 10th and 11th

g. Proposal for the Training of Individuals for the Construction Industry developed in coordination with the Work Incentive Program of the Labor Department

6. Edition and submission of RCU Final Report to the Assistant Secetary for Vocational and Technical Education Program which also acts as Secretary of the Commonwealth Board for Vocational and Technical Education

7. Reorganization of RCU according to new duties assigned into three different components, identifying personnel needs and defining personnel functions.

8. Final Revision of the Three Proposals for the Educational Projects under Title I, Elementary and Secondary School Law (Law 89-10)

9. Preparation of a detailed plan of activities to be developed at the RCU during the present school year, to be submitted to the new Assistant Secretary for Vocational and Technical Education Program

10. Statistical analysis and data gathering on Vocational and Technical Education Programs, employment and unemployment in Agriculture, Commerce, Manufacture and Tourism and the Enrollment projections for all the VTE Programs were undertaken at the RCU.

11. Evaluation of a proposal submitted by the business education program aimed at using mobil units to expand the business education program to small school districts in the different educational regions.

12. A report of the status of on-going projects and projects funded last semester were submitted to the Assistant Secretary for Vocational and Technical Education Program.

13. Summaries of the following studies were translated, edited and prepared for future distribution to VTE personnel:

    a. Cost-Effectiveness of the vocational and Technical Education Program in Puerto Rico

    b. A Plan for Comprehensive Community College Education in Puerto Rico by Thomas E. Barton, Jr., and Don C. Garrison - study prepared for the Commonwealth of Puerto Rico, Advisory Council on Vocational and Technical Education.

Puerto Rico

14. State Plan for the vocational and Technical Education Program for School Year 1973-74 was revised, edited and duplicated.

15. Data were collected and a document was prepared with information requested by the Committee for a Technical Assistance Visit from Washington on November 1973.

16. A proposal for a further analysis of the Follow-Up Study of Graduates of the VTE Program for 1971-72 was submitted to the Assistant Secretary for approval.

17. A list of projects developed at the RCU since its beginning was prepared and submitted.

18. Implementation of the Project Translation and Adaptation Component at the State Pedagogical Resources Center funded under Emergency School Aid Act was undertaken by the Research Component of the RCU.

19. Revision of the Directory of the Directive and Supervisory Personnel of the VTE Program was carried out.

20. Translation and dissemination of materials related to (PERT) Management Control Systems.

PROJECTS AND ACTIVITIES PLANNED:

1. In-service training of RCU personnel in:

   a. Evaluation Techniques-Will be offered by consultants to be contracted to develop the Evaluation Study of the Business Education Program and the Distribution and Marketing Program.

   b. Management Information System Implementation and Program Evaluation Review Techniques-To be offered by consultants contracted to help system development.

   c. Data Processing and Research Studies Design-Organized by the RCU Director by contracting the Educational Testing Service.

2. Continue with a further analysis of the Students Follow-Up Findings Data gathered is based on the first mailing of questionnaires. Data was grouped for several reports according to:

   a. Occupational area, level, vocational program, educational region, school district, school and course

   b. Report of an overview of the follow-up per program and occupational area

3. Start implementation of:

   a. Management Control System in the Vocational Industrial Program.

   b. Contract Consultants to Identify Handicapped and Disadvantaged Students in an Area Vocational School, grades 10th and 11th to utilize results in considering possiblities of expanding the Special Needs Program throughout the Island.

   c. Effectiveness of the Business Program in Preparing Students for job opportunities in the Caguas Region.

   d. Study to Evaluate Students Achievement in the Different Business Subjects at the Mayaguez Educational Region.

   e. Curriculum Development Basic to the Training of Individuals for Employment in Agri-Business.

   f. Development of Guides and Test for Self-Study in Business Education for Youth and Adults.

   g. Curriculum Development for a Course in Pharmacist Assistants for the Health Occupation Program.

   h. The Training of Disadvantaged and Unemployed Youngsters on Methods and Techniques of Modern Agriculture for the Production, Collection, Classification, Packing and Cooperative Marketing of Vegetables and Minor Crops (Cont. Part D)

   i. Career Education Program at Palmerjo Rural Second Unit in Lajas School District to Acquaint Elementary and Junior High School Students with Career Possibilities (Cont).

   j. A Model State Pedagogical Resources Center for Designing, Producing, Testing, Revising and Disseminating Teaching, Audiovisual and Other Education Materials for Students of Regular, Special and Post-Secondary Programs for Vocational and Technical Education in Puerto Rico (Cont.)

GSA DC 74.13239

RELATED PUBLICATIONS

Readers of this Semiannual Report might be interested in the following related publications, which are available from the ERIC Document Reproduction Service:

State-Administered Research and Development Projects in Vocational Education: Fiscal Year 1971 and Fiscal Year 1972. (ED-080-748)

State-Administered Exemplary Projects in Vocational Education: Fiscal Year 1970, Fiscal Year 1971, and Fiscal Year 1972. (ED-080-749)

The Role of the National System of Research Coordinating Units in the Research-to-Practice Continuum. (ED-080-688)

The RCU's Role in Implementing the Career Education Concept. (ED-062-558)